

FOR

TRANSPORTATION IMPROVEMENT PROGRAMS, TRANSPORTATION PLANS, AND REGIONAL EMISSIONS ANALYSIS OF TRANSPORTATION PROJECTS IN NEW HAMPSHIRE'S NON-ATTAINMENT AREAS

November 7, 2006

(Released for 30 day public comment period October 6 – November 6, 2006)

PREPARED BY:

New Hampshire Department of Transportation
Bureau of Transportation Planning

IN CONJUNCTION WITH:

New Hampshire Department of Environmental Services
Southern New Hampshire Planning Commission
Nashua Regional Planning Commission
Strafford Regional Planning Commission
Rockingham Planning Commission

TABLE OF CONTENTS

SUBJECT	<u>PAGE</u>
INTRODUCTION	1
APPLICABILITY	1
TASK 1: PROJECT IDENTIFICATION	2
TASK 2: DETERMINE EXEMPT PROJECTS	2
TASK 3: DETERMINE NO BUILD VERSUS BUILD PROJECTS	3
TASK 4: DETERMINE NO BUILD EMISSIONS	3
TASK 5: DETERMINE BUILD EMISSIONS	3
TASK 6: ADJUSTMENT BETWEEN HPMS DATA AND TRANSPORTATION MODELS	4
TASK 7: PERFORM CONFORMITY TESTS	4
PUBLIC COMMENT PERIOD	7

EXHIBITS

- 1. Total Emissions Tables for each Non-Attainment Budget Area
- 2. Ozone Non-Attainment Map
- **3.** Exempt Code List
- **4.** Exempt/Not Exempt Project List in the Ten-Year Period (2007-2016)
- **5.** Approved 2006 round of CMAQ/TE projects
- 6. Not Exempt Project List from Ten-Year Plan & Long Range Plans
- **7.** 2002 VMTs from HPMS
- **8.** MOBILE6.2 inputs
- **9.** Off Model analysis for Manchester Marginal area
- 10. Towns located in Nonattainment Area and Modeling Responsibility
- 11. Public Comments

APPENDICES

Appendix A	Budgets for	Seacoast and	Southern	non-attainment	budaet	regions

Appendix B NRPC Report

Appendix C SNHPC Report

Appendix D Seacoast MPO and Salem-Plaistow-Windham MPO Report

INTRODUCTION

The 1990 Clean Air Act Amendments require conformity determinations of Transportation Plans and Transportation Improvement Programs (TIPs) adopted by Metropolitan Planning Organizations (MPOs) in areas that are non-attainment for particular pollutants. Conformity determinations are also required in non-attainment areas for all transportation projects funded or approved under Title 23 or the Federal Transit Act.

The United States Environmental Protection Agency (EPA) promulgated final rules on transportation conformity procedures on November 24, 1993 (Federal Register, Vol. 58, No. 225). Each state subject to this rule is required to submit a revision to the State Implementation Plan (SIP), which contains the criteria and procedures for determining conformity in that state. New Hampshire promulgated this rule in October 1995 and this rule was submitted to EPA for approval in January 1996. This administrative rule, Env-A: 1501 Transportation Conformity, references the Federal rule.

In August of 1997, EPA promulgated the Third Set of Amendments to the Federal Transportation Conformity Rule, which gave clarification and more flexibility to the transportation conformity rule. As a result, the State Transportation Conformity rule (Env-A: 1501) was modified to incorporate the Federal rule by reference. This report and the analyses contained within were prepared according to the Federal rule criteria (including third set of amendments) and procedures. The consultation procedures as outlined in the Env-A: 1501, and approved by EPA, were followed in the preparation of this conformity determination.

On April 15, 2004 EPA designated as non-attainment areas throughout the country that exceeded the health-based standards for 8-hour ozone, effective as of June 15, 2004. Previously, non-attainment areas were based on ozone exposure over a one hour period. We do not currently have a budget for the 8-hour non-attainment area. In consulting with EPA, it was determined that the best course of action for determining conformity would be to use the 1-hour budgets with the 1-hour non-attainment areas. Any additional credit for off model analyses would have to be located in the 8-hour non-attainment boundary. The emission budgets used in this Conformity Determination are from the "2003 Attainment Demonstration" SIP submitted to EPA in 1998. This SIP is the "applicable" SIP for this conformity determination.

The FY 2007-2010 STIP and therefore the TIPs have been determined to be fiscally constrained based on projected Obligational Limits under Federal legislation and the Department's ability to advance construct projects when funds are not available. A full description of this fiscal constraint analysis will be sent along with the final Conformity Determination to Federal Highway Administration (FHWA) and Federal Transit Administration (FTA).

APPLICABILITY

According to the Federal rule, conformity determinations are required for the adoption, acceptance or approval of a Transportation Plan or Transportation Improvement Program by an MPO or DOT. At this time, a new Statewide Transportation Improvement Program (FY 2007-2010 STIP) and respective MPO TIPs were adopted by NHDOT and the MPOs. All the MPO Transportation Plans were also adopted. The analysis contained in this document

serves as a supplement to the analysis in each TIP and Plan as well as demonstrating conformity to the new 8-hour standard.

Conformity determinations are required in all non-attainment areas for transportation-related criteria pollutants. In April of 2004, EPA designating parts of four counties non-attainment for Ozone using the 8-hour standard. These counties are Hillsborough, Merrimack, Rockingham, and Strafford. This map is shown as Exhibit 2. These areas require an approved Conformity Determination. In ozone non-attainment areas, conformity must be demonstrated for volatile organic compounds (VOCs) and for nitrogen oxides (NOx).

Two cities, Nashua and Manchester, are also designated non-attainment for Carbon Monoxide (CO). Since these cities are entirely within MPO areas, conformity determinations for carbon monoxide are contained in the MPO TIP and Plan analysis.

The conformity tests required in the Federal rule must be demonstrated for the respective pollutant(s) in each non-attainment budget area in its entirety. As shown in Exhibit 2, the boundaries of the MPO areas and the non-attainment budget areas do not always match. Portions of some MPOs can be found in several non-attainment budget areas and vice versa. For this reason, NHDOT has prepared this document, which combines analyses performed by the MPOs to complete the analysis for the entire non-attainment budget area.

TASK 1: PROJECT IDENTIFICATION

The FY 2007-2010 STIP, MPO TIPs and Transportation Plans were used to identify projects to be included in the regional emissions analyses. Since the FY 2007-2010 STIP only covers the next four years, the State's Ten Year Plan and the MPO Transportation Plans were used to determine future year projects.

In addition to projects listed on the FY 2007-2010 STIP, MPO TIPs and MPO Plans, any other transportation project, which is considered regionally significant, is included in the analysis. These projects were identified through local contacts at the MPO, Regional Planning Commissions, and NHDOT District offices and following the definitions and procedures in the state transportation conformity rule (Env-A: 1501).

TASK 2: DETERMINE EXEMPT PROJECTS

Most projects in the FY 2007-2010 STIP, MPO TIPs and MPO Plans are not included in the analysis because they are exempt from conformity determinations. Exhibit 2 lists those types of projects that are considered exempt. Exhibit 2 is based on tables contained in the Federal rule. Codes for each project type have been added to Exhibit 2 for reference purposes.

Exhibit 4 contains the list of not exempt projects gathered from the FY 2007-2010 STIP, State Ten Year Plan, MPO TIPs, and MPO Plans. List of Regionally significant projects are included in the individual MPO reports (Appendices B, C, and D).

Conformity determinations are required for certain analysis years. These analysis years have been developed in consultation with New Hampshire Department of Environmental

Services (NHDES), EPA and by looking at section 51.404 of the Federal Transportation Conformity rule. Projects are considered in a particular analysis year based on the expected opening year. Projects expected to be complete beyond these analysis years are not considered. In New Hampshire, analysis years are defined as follows:

OZONE NON-ATTAINMENT BUDGET AREA	CLASSIFICATION	ANALYSIS YEARS
SOUTHERN NH	SERIOUS	2007, 2009, 2017, 2025
SEACOAST	SERIOUS	2007, 2009, 2017, 2025
MANCHESTER	MARGINAL	2007, 2009, 2017, 2025
CHESHIRE COUNTY	NOT CLASSIFIED, INCOMPLETE DATA	2007, 2009, 2017, 2025

CARBON MONOXIDE (CO) NON- ATTAINMENT AREA	CLASSIFICATION	ANALYSIS YEARS
CITY OF MANCHESTER	NOT CLASSIFIED	2010, 2017, 2025
CITY OF NASHUA	NOT CLASSIFIED	2010, 2017, 2025

TASK 3: DETERMINE NO BUILD VERSUS BUILD PROJECTS

Projects, which have completed the National Environmental Policy Act (NEPA) environmental permit process, are placed in the No Build scenario for analysis. All other projects (except some projects which are built or in the process of being implemented) are analyzed as part of the Build scenario. Exhibit 4 notes which scenario each project was assigned.

TASK 4: DETERMINE NO BUILD EMISSIONS

The MPOs have incorporated all the projects considered as baseline projects (see Exhibit 4) in the appropriate analysis years. Background growth and the effects of these baseline projects are incorporated into the model calculations. Certain projects cannot be analyzed with transportation models. These projects, known as "off-model" projects are noted in their documentation. The emissions based on "off-model" calculations, were added to the model output, to calculate the total No Build emissions.

The transportation models can provide for Vehicle Miles Traveled (VMT) and speed estimates. Emission factors from the EPA's MOBILE6.2 model, corresponding to speed estimates from the transportation models, were multiplied with the VMT estimates to calculate the total emissions. Samples of MOBILE6.2 inputs are included in Exhibit 8. All input files and model output files are available on CD by request.

TASK 5: DETERMINE BUILD EMISSIONS

All the projects which do not fall in the No Build Category, are called Build Projects. The MPOs coded these projects into the Transportation Models, performed model runs and calculated the build emissions. In addition, emissions from the projects that cannot be coded into the models "off-model" projects are added to the model outputs, to calculate the total build

emissions. Appendices B, C and D contain the MPO reports describing the methods and results of analysis of the "build projects" using the transportation models.

Totals of build scenario emissions for each analysis year and each non-attainment budget area are enclosed in Exhibit 1.

TASK 6: ADJUSTMENT BETWEEN HIGHWAY PERFORMANCE MONITORING SYSTEM (HPMS) DATA AND TRANSPORTATION MODELS:

At this time, two non-attainment budget areas (Seacoast non-attainment budget area and Southern NH non-attainment budget area) in New Hampshire are covered by the MPO Transportation Models. The Seacoast non-attainment budget area is covered by one single model by the Seacoast MPO and three different MPO models cover the Southern New Hampshire non-attainment budget area. Since HPMS data and the Transportation Model data are two different tools, there will be a difference in the 2002 emissions inventory estimates of mobile sources (based solely on HPMS data) versus the estimates calculated for conformity (based on transportation model data).

In the Seacoast and Southern New Hampshire non-attainment budget areas, an adjustment factor is calculated to compensate for the difference between HPMS and model outputs. 2002 VOC and NOx adjustment factors were calculated as shown below:

VOC adjustment Factor = VOC emissions in kgs/day from 2002 emissions inventory divided by combined total of 2002 VOC emissions in kgs/day from the three different transportation models (in the case of Southern NH) and one transportation model (in the case of Seacoast).

NOx adjustment Factor = NOx emissions in kgs/day from 2002 emissions inventory divided by combined total of 2002 NOx emissions in kgs/day from the three different transportation models (in the case of Southern NH) and one transportation model (in the case of Seacoast).

These calculations can be seen in Exhibit 6.

This adjustment methodology was developed through a consultation process involving the MPO, NHDOT, and NHDES and was later presented to and agreed upon by the EPA, FHWA and FTA.

TASK 7: PERFORM CONFORMITY TESTS

Based on the third set of amendments to the Federal rule, for Ozone non attainment areas with submitted SIPs, the budget test is the only conformity test which need to be met in each non-attainment budget area for each analysis year:

Build Emissions < Emissions Budget (Applies to both VOC and NOx)

The emissions budgets are established in the applicable SIP.

In areas without approved mobile source emission budgets (non-attainment towns outside of budgeted areas), the following emission reduction test can be used:

Build Emissions < 2002 Emissions <u>and</u> Build Emissions <= No Build Emissions (Applies to both VOC and NOx)

The towns to which these tests apply are as follows: Auburn, Bedford, Candia, Chester, Epping, Freemont, Goffstown, Hooksett, Manchester, and Raymond.

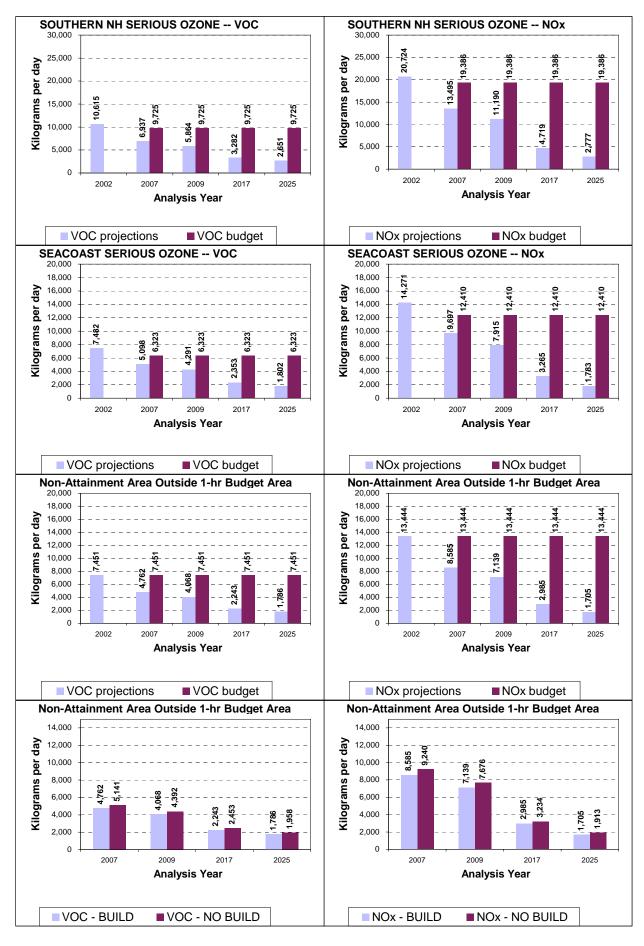
In the case of Carbon Monoxide non-attainment areas (City of Manchester and City of Nashua), Build emissions should be less than 2010 budgets as established in the Maintenance plans.

Below is a summary of the emission budgets.

Area	Pollutant	Budget (tons/day)	Budget (kg/day)
Southern NH (NH Portion of the Boston-Lawrence-	VOC	10.72	9,725
Worchester nonattainment area)	NOx	21.37	19,386
Seacoast (Portsmouth-Dover-Rochester	VOC	6.97	6,323
nonattainment area)	NOx	13.68	12,410
Manchester	CO	55.83	50,648
Nashua	CO	60.13	54,550

Result of the Conformity Tests:

As shown in the charts in the following pages and in table form in Exhibit 1, the applicable conformity test for Ozone was met in each analysis year for the non-attainment budget and non-budgeted areas. In the case of Carbon Monoxide, as shown in the following pages, the applicable conformity test is satisfied.



CARBON MONOXIDE ANALYSIS SUMMARY CITY OF NASHUA

YEAR	SCENARIO	VMT	CO kg/day (Winter)	CO Budget (kg/day)	YEAR
2010	Build	1,805,196	26,608.663	54,489	2010
2017	Build	1,956,346	21,229.571	54,489	2017
2025	Build	2,146,235	21,369.822	54,489	2025

CO ANALYSIS RESULTS FOR MANCHESTER

	Scenario	Average Da	aily Values	Winter Month Values 1		
	Scenario	VMT	CO (Kg/day)	VMT	CO (Kg/day)	
2010	No-Build	2,182,943	30,121	1,986,478	27,410	
2010	Build	2,107,086	29,032	1,917,448	26,419	
2017	No-Build	2,350,847	25,449	2,139,271	23,159	
2017	Build	2,295,002	24,969	2,088,452	22,722	
2025	No-Build	2,557,555	25,132	2,32,7375	22,870	
2023	Build	2,517,894	24,871	2,291,284	22,633	

Therefore, positive conformity determinations may be made on the current MPO TIPs and MPO Plans in New Hampshire.

Section 51.418 of the Federal conformity rule requires that MPO Plans, MPO TIPs and projects outside the MPO areas must provide for the timely implementation of any Transportation Control Measures (TCMs) specifically identified in the SIP. At this time, there are no TCMs in New Hampshire's SIP. Therefore, this condition is met.

Public Comment Period

Public comments will be accepted for the draft conformity analysis from October 6, 2006 through November 6, 2006 (4:00 PM) in accordance with New Hampshire Administrative rule, Env-A 1501: Transportation Conformity. Written comments received during this period will be included in this document and all comments will be responded to and corrections made where appropriate. All comments, responses and corrections will be documented.

Exhibit 1.

Total Emissions Tables for each Non-attainment budget area

VOC (HCs) in kg/day

	PORTION NASHUA MPO AREA (1)(2)	PORTION MANCHESTER MPO AREA (1)(2)	PORTION RPC AREA (1)(2)	TOTAL	ADJUSTED TOTAL (1)	BUDGET	TESTS	
							INVENTORY=10,615	
2002 base year	5,185	2,042	4,361	11,588	10,615		ADJUSTMENT=	0.92
2007 BUILD 2007 BUDGET	3,226	1,298 *	3,049	7,573	6,937	9,725	BUILD <budget? Margin of Safety =</budget? 	True 2788
2009 BUILD 2009 BUDGET	2,752 *	1,111	2,539	6,402	5,864	9,725	BUILD <budget? Margin of Safety =</budget? 	True 3861
2017 BUILD 2017 BUDGET	1,584 *	628	1,371 *	3,583	3,282	9,725	BUILD <budget? Margin of Safety =</budget? 	True 6443
2025 BUILD	1,324	505	1,065	2,894	2,651	9,725	BUILD <budget?< td=""><td>True</td></budget?<>	True
2025 BUDGET	*	*	*				Margin of Safety =	7074

NOx in kg/day

	PORTION NASHUA MPO AREA (1)(2)	PORTION MANCHESTER MPO AREA (1)(2)	PORTION RPC AREA (1)(2)	TOTAL	ADJUSTED TOTAL (1)	BUDGET	TESTS	
-	ANEA (1)(2)	AREA (1)(2)	AREA (1)(2)	IOTAL	TOTAL (1)	BODGET	INVENTORY=20,724	KGS/DAY
2002 base year	9,146	3,825	8,118	21,089	20,724		ADJUSTMENT=	0.98
2007 BUILD 2007 BUDGET	5,880 *	2,446	5,407 *	13,733	13,495	19,386	BUILD <budget? Margin of Safety =</budget? 	True 5891
2009 BUILD 2009 BUDGET	4,854 *	2,038	4,495 *	11,387	11,190	19,386	BUILD <budget? Margin of Safety =</budget? 	True 8196
2017 BUILD 2017 BUDGET	2,100	867 *	1,835 *	4,802	4,719	19,386	BUILD <budget? Margin of Safety =</budget? 	True 14667
2025 BUILD 2025 BUDGET	1,329 *	496 *	1,001 *	2,826	2,777	19,386	BUILD <budget? Margin of Safety =</budget? 	True 16609

^{*} Budgets are not created for each portion of the nonattainment area

⁽¹⁾ Adjusted Total = Total*Adjustment. 2002 base year Adjusted Total emissions are HPMS based and are taken from "2002 HPMS VMT Emissions". (2) 2002 base year emissions are outputs from MPO Models

NONATTAINMENT AREA: SEACOAST SERIOUS OZONE

VOC	(HCs)	in	kg/da	v

	SEACOAST MPO AREA	ADJUSTED TOTAL	BUDGET		
2002 base year	8,551	7,482		INVENTORY=7,482 KGS/DAY ADJUSTMENT=	0.88
2007 BUILD 2007 BUDGET	5,826	5,098	6,323	BUILD <budget? true<br="">Margin of Safety =</budget?>	1225
2009 BUILD 2009 BUDGET	4,904	4,291	6,323	BUILD <budget? true<br="">Margin of Safety =</budget?>	2032
2017 BUILD 2017 BUDGET	2,689	2,353	6,323	BUILD <budget? true<br="">Margin of Safety =</budget?>	3970
2025 BUILD 2025 BUDGET	2,059	1,802	6,323	BUILD <budget? true<br="">Margin of Safety =</budget?>	4521

NOx in kg/day

	SEACOAST MPO AREA	ADJUSTED TOTAL	BUDGET		
2002 base year	16,163	14,271		INVENTORY=14,271 KGS ADJUSTMENT=	DAY 0.8829
2007 BUILD 2007 BUDGET	10,983	9,697	12,410	BUILD <budget? Margin of Safety =</budget? 	True 2713
2009 BUILD 2009 BUDGET	8,964	7,915	12,410	BUILD <budget? Margin of Safety =</budget? 	True 4495
2017 BUILD 2017 BUDGET	3,698	3,265	12,410	BUILD <budget? Margin of Safety =</budget? 	True 9145
2025 BUILD 2025 BUDGET	2,019	1,783	12,410	BUILD <budget? Margin of Safety =</budget? 	True 10627

	Non-Attainment Area O	utside 1-hr Budget A	rea, BUILD < BA	SE YEAR TEST		
		VOC (HCs) in kg/da	у			
	PORTION MANCHESTER MPO AREA (1)	PORTION RPC AREA (1)	TOTAL	TESTS		
2002 base year	6,551	900	7,451			
2007 BUILD	4,189	573	4,762	BUILD<2002? Margin of Safety =	True	2689
2009 BUILD	3,580	488	4,068	BUILD<2002? Margin of Safety =	True	3383
2017 BUILD	1,972	271	2,243	BUILD<2002? Margin of Safety =	True	5208
2025 BUILD	1,572	214	1,786	BUILD<2002? Margin of Safety =	True	5665
		NOx in kg/day				
	PORTION MANCHESTER MPO AREA (1)(2)	PORTION RPC AREA (1)	TOTAL	TESTS		
2002 base year	11,743	1,701	13,444			
2007 BUILD	7,498	1,087	8,585	BUILD<2002? Margin of Safety =	True	4859
2009 BUILD	6,242	897	7,139	BUILD<2002? Margin of Safety =	True	6305
2017 BUILD	2,613	372	2,985	BUILD<2002? Margin of Safety =	True	10459
2025 BUILD	1,496	209	1,705	BUILD<2002? Margin of Safety =	True	11739

⁽¹⁾ Emissions in Columns 1 and 2 are based on MPO models.

⁽²⁾ Emissions in Column 1 reflect credits from TMC center (see Exhibit 10).

	Non-Attainment Area O	utside 1-hr Budget A	rea, BUILD <= N	O BUILD TEST		
		VOC (HCs) in kg/day	/			
	PORTION MANCHESTER MPO AREA (1)	PORTION RPC AREA (1)	TOTAL	TESTS		
2007 NO BUILD 2007 BUILD	4,568 4,189	573 573	5,141 4,762	BUILD<=NO BUILD? Margin of Safety =	True	379
2009 NO BUILD 2009 BUILD	3,904 3,580	488 488	4,392 4,068	BUILD<=NO BUILD? Margin of Safety =	True	324
2017 NO BUILD 2017 BUILD	2,182 1,972	271 271	2,453 2,243	BUILD<=NO BUILD? Margin of Safety =	True	210
2025 NO BUILD 2025 BUILD	1,744 1,572	214 214	1,958 1,786	BUILD<=NO BUILD? Margin of Safety =	True	172
		NOx in kg/day				
	PORTION MANCHESTER MPO AREA (1)	PORTION RPC AREA (1) (2)	TOTAL	TESTS		
2007 NO BUILD 2007 BUILD	8,153 7,498	1,087 1,087	9,240 8,585	BUILD<=NO BUILD? Margin of Safety =	True	655
2009 NO BUILD 2009 BUILD	6,779 6,242	897 897	7,676 7,139	BUILD<=NO BUILD? Margin of Safety =	True	537
2017 NO BUILD 2017 BUILD	2,862 2,613	372 372	3,234 2,985	BUILD<=NO BUILD? Margin of Safety =	True	249
2025 NO BUILD 2025 BUILD	1,704 1,496	209 209	1,913 1,705	BUILD<=NO BUILD? Margin of Safety =	True	208

⁽¹⁾ Emissions in Columns 1 and 2 are based on MPO models.
(1) Emissions in Columns 2 are emissions from Freemont and Epping only. As there are no projects in these areas, BUILD = NO BUILD.

Exhibit 2.
Ozone Non-attainment Map

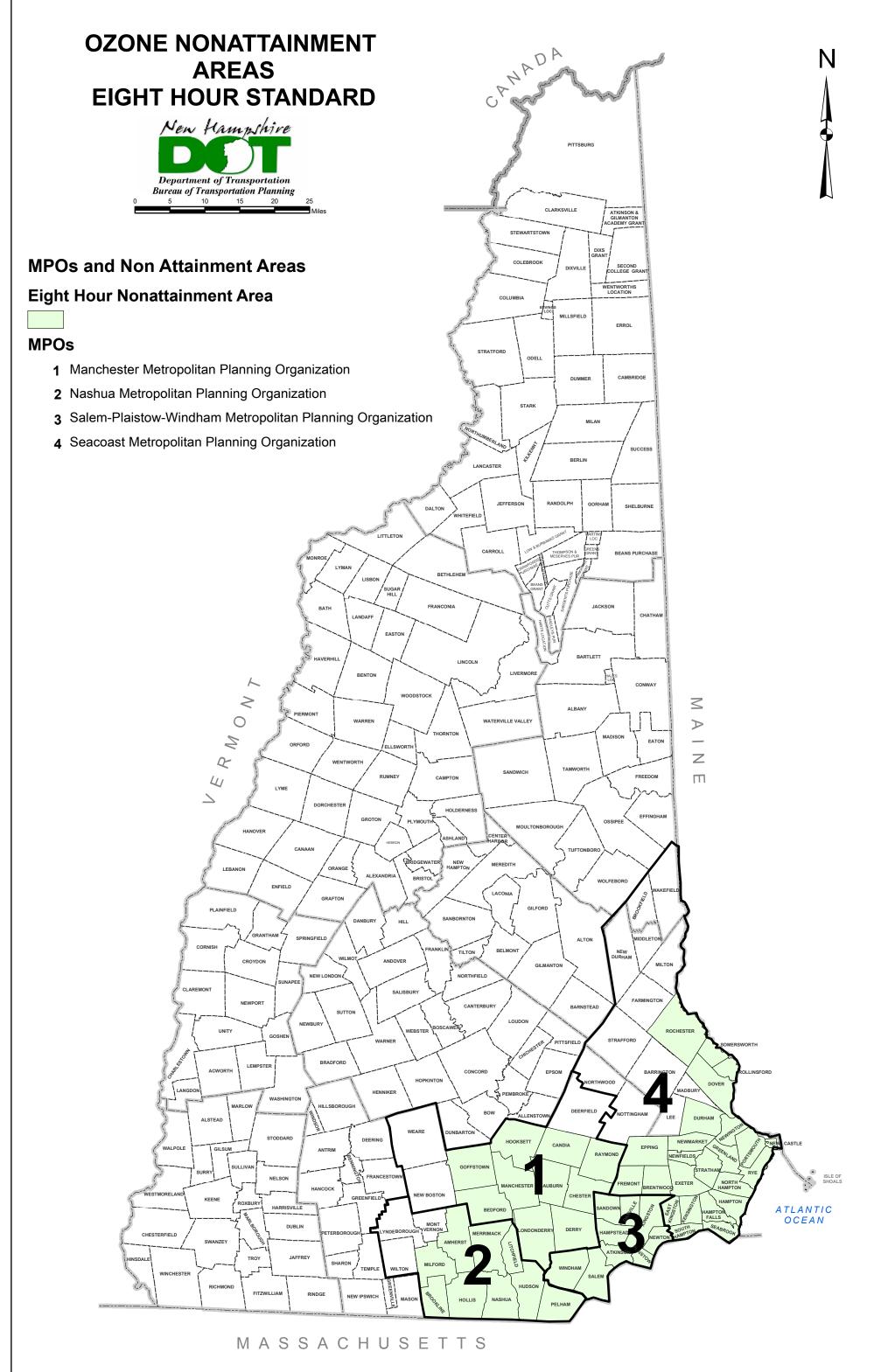


Exhibit 3.
Exempt Code List

PROJECTS EXEMPT FROM CONFORMITY

SAFETY

- E-1 Railroad/highway crossing.
- E-2 Hazard elimination program.
- E-3 Safer non-Federal Aid system roads.
- E-4 Shoulder improvements.
- E-5 Increasing sight distance.
- E-6 Safety improvement program.
- E-7 Traffic control devices and operating assistance other than signalization projects.
- E-8 Railroad/highway crossing warning devices.
- E-9 Guardrails, median barriers, crash cushions.
- E-10 Pavement resurfacing and/or rehabilitation.
- E-11 Pavement marking demonstration.
- E-12 Emergency relief (23 U.S.C. 125).
- E-13 Fencing.
- E-14 Skid treatments.
- E-15 Safety roadside rest areas.
- E-16 Adding medians.
- E-17 Truck climbing lanes outside the urbanized area.
- E-18 Lighting improvements.
- E-19 Widening narrow pavements or reconstructing bridges (no additional travel lanes).
- E-20 Emergency truck pullovers.

MASS TRANSIT

- E-21 Operating assistance to transit agencies.
- E-22 Purchase of support vehicles.
- E-23 Rehabilitation of transit vehicles. {1}
- E-24 Purchase of office, shop, and operating equipment for existing facilities.
- E-25 Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)
- E-26 Construction or renovation of power, signal, communications systems.
- E-27 Construction of small passenger shelters and information kiosks.
- E-28 Construction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures).
- E-29 Rehabilitation or reconstruction of track structures, track, and track bed in existing rights-of-way.
- E-30 Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet. {1}
- E-31 Construction of new bus or rail storage/maintenance facilities categorically excluded in 23 CFR part 771.

AIR OUALITY

- E-32 Continuation of ride-sharing and van-pooling promotion activities at current levels.
- E-33 Bicycle and pedestrian facilities.

OTHER

Specific activities which do not involve or lead directly to construction, such as:

- E-34 Planning and technical studies.
- E-35 Grants for training and research programs.
- E-36 Planning activities conducted pursuant to titles 23 and 49 U.S.C.
- E-37 Federal-aid systems revisions.
- E-38 Engineering to assess social, economic, and environmental effects of the proposed action to alternatives to that action.
- E-39 Noise attenuation.
- E-40 Advance land acquisitions (23 CFR part 712 or 23 CFR part 771).
- E-41 Acquisition of scenic easements.
- E-42 Plantings, landscaping, etc.
- E-43 Sign removal.
- E-44 Directional and informational signs.
- E-45 Transportation enhancement activities (except rehabilitation and operation of historic transportation buildings, structures or facilities).
- E-46 Repair of damage caused by natural disasters, civil unrest, or terrorist acts, exempt projects involving substantial functional, locational or capacity changes.
- ATT. Project is located in attainment area and, therefore, not subject to conformity.

PROJECTS EXEMPT FROM REGIONAL EMISSIONS ANALYSES

- E-51 Intersection channelization projects.
- E-52 Intersection signalization projects at individual intersections.
- E-53 Interchange reconfiguration projects.
- E-54 Changes in vertical and horizontal alignment.
- E-55 Truck size and weight inspection stations.
- E-56 Bus terminals and transfer points.

OTHER EXEMPT CODES

N/E Project is not exempt

{1} PM10 nonattainment or maintenance areas, such projects are exempt only if they are in compliance with control measures in the applicable implementation plan.

S:\ANALYSIS\CLEANAIR\CONFORM\FY01\STIP Amendment 9\Exempt Code List.doc

Exhibit 4.

Exempt/Not Exempt Project List in the Ten-Year Period (2007-2016)

Exempt / Not Exempt Projects in the 2007-2010 STIP and Not Exempt Projects in the 2007-2016 Ten Year Plan

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	ALBANY	13632C	2007	CON	NH 112	INSTALL RWIS IN DISTRICT 3
ATT	ALSTEAD	14540M	2007	ROW	NH 123	NH 123 - FROM LAKE WARREN DAM WEST APPROX 4 MILES TO MURPHY HILL RD; RECONSTRUCT OCTOBER 2005 FLOOD, TO INCLUDE BRIDGES: 060/159, 073/163, 097/142, 107/130, 111/129
ATT	ALSTEAD	14540M	2008	CON	NH 123	NH 123 - FROM LAKE WARREN DAM WEST APPROX 4 MILES TO MURPHY HILL RD; RECONSTRUCT OCTOBER 2005 FLOOD, TO INCLUDE BRIDGES: 060/159, 073/163, 097/142, 107/130, 111/129
ATT	ALSTEAD	14541I	2007	CON	NH 123	RECONST ON NEW ALIGNMENT BEGINNING APPROX 1500' WEST OF COBB HILL ROAD & GO APPROX 2500', RECONST COBB HILL RD & NH 123 BR #097/142, BEGIN APPROX 1500' (Funding is FHWA-ER) [Oct 2005 Floods]
ATT	ALSTEAD	14541J	2007	CON	NH 123	RECONSTRUCT NH123 AND APPROACHES TO NH12A & GRIFFIN HILL ROAD BEGINNING APPROX 1000' EAST OF NH 123A, GO EAST 3500' TO BR #087/155 OVER WARREN BROOK, (Funding is FHWA-ER) [Oct 2005 Floods]
ATT	ALSTEAD	14541K	2007	CON	NH 12A & NH 123	REPAIR BRIDGE OVER COLD RIVER - 060/159 [October 2005 Flood]
ATT	ALTON	13802	2007	PE	NH 28	REPLACE BRIDGE & APPROACH WORK OVER MERRYMEETING RIVER - 186/155
ATT	ALTON	13802	2007	ROW	NH 28	REPLACE BRIDGE & APPROACH WORK OVER MERRYMEETING RIVER - 186/155
ATT	ALTON	13802	2007	CON	NH 28	REPLACE BRIDGE & APPROACH WORK OVER MERRYMEETING RIVER - 186/155
ATT	ALTON - GILFORD	10606	2008	PE	NH 11	RECONSTRUCTION NEAR ELLOCOYA STATE PARK SOUTHEAST 4.75 MILES TO MINGE BROOK
ATT	ALTON - GILFORD	10606	2009	PE	NH 11	RECONSTRUCTION NEAR ELLOCOYA STATE PARK SOUTHEAST 4.75 MILES TO MINGE BROOK
ATT	ALTON - GILFORD	10606	2010	PE	NH 11	RECONSTRUCTION NEAR ELLOCOYA STATE PARK SOUTHEAST 4.75 MILES TO MINGE BROOK
ATT	ALTON - GILFORD	10606	2010	ROW	NH 11	RECONSTRUCTION NEAR ELLOCOYA STATE PARK SOUTHEAST 4.75 MILES TO MINGE BROOK
E-45	AMHERST	06-01TE	2008	PE		TOWN HALL BEAUTIFICATION AND SAFETY: ADD GREEN SPACE IMMEDIATELY IN FRONT OF THE TOWN HALL AND IN FRONT OF THE ADJOINING OLD BURIAL GROUNDS. IMPROVE PEDESTRIAN SAFETY AND TO REDUCE PAVED SURFACES WHICH WILL REDUCE STORM WATER RUNOFF. [06-01TE]
E-45	AMHERST	06-01TE	2009	ROW		TOWN HALL BEAUTIFICATION AND SAFETY: ADD GREEN SPACE IMMEDIATELY IN FRONT OF THE TOWN HALL AND IN FRONT OF THE ADJOINING OLD BURIAL GROUNDS. IMPROVE PEDESTRIAN SAFETY AND TO REDUCE PAVED SURFACES WHICH WILL REDUCE STORM WATER RUNOFF. [06-01TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-45	AMHERST	06-01TE	2010	CON		TOWN HALL BEAUTIFICATION AND SAFETY: ADD GREEN SPACE IMMEDIATELY IN FRONT OF THE TOWN HALL AND IN FRONT OF THE ADJOINING OLD BURIAL GROUNDS. IMPROVE PEDESTRIAN SAFETY AND TO REDUCE PAVED SURFACES WHICH WILL REDUCE STORM WATER RUNOFF. [06-01TE]
E-6	ANDOVER		2008	PE	US 4	RECONSTRUCT APPROXIMATELY 2.0 MILES FROM SALISBURY T/L WESTERLY
E-6	ANDOVER		2009	PE	US 4	RECONSTRUCT APPROXIMATELY 2.0 MILES FROM SALISBURY T/L WESTERLY
E-19	ANDOVER	14169	2007	PE	NH 11 & 4A	BRIDGE OVER US 4 & NHRR (ABD) - 058/103, REHABILITATION OR REMOVAL
E-19	ANDOVER	14169	2007	ROW	NH 11 & 4A	BRIDGE OVER US 4 & NHRR (ABD) - 058/103, REHABILITATION OR REMOVAL
E-19	ANDOVER	14169	2008	CON	NH 11 & 4A	BRIDGE OVER US 4 & NHRR (ABD) - 058/103, REHABILITATION OR REMOVAL
E-10	ANDOVER	14172	2007	PE	NH 11	RECONSTRUCT FROM CHANNELL ROAD TO HOYT ROAD - APPROX. 1.5 MILES
E-10	ANDOVER	14172	2007	ROW	NH 11	RECONSTRUCT FROM CHANNELL ROAD TO HOYT ROAD - APPROX. 1.5 MILES
E-10	ANDOVER	14172	2008	PE	NH 11	RECONSTRUCT FROM CHANNELL ROAD TO HOYT ROAD - APPROX. 1.5 MILES
E-10	ANDOVER	14172	2010	ROW	NH 11	RECONSTRUCT FROM CHANNELL ROAD TO HOYT ROAD - APPROX. 1.5 MILES
E-45	ANDOVER - WILMOT - DANBURY	06-02TE	2008	PE		NORTHERN RAIL TRAIL: IMPROVEMENTS: CONSTRUCT LEDGE PACK SURFACE ON NORTHERN RAIL CORRIDOR FROM DANBURY THROUGH WILMOT AND ENDING IN ANDOVER. APPROXIMATELY 8.3 MILES IN LENGTH. [06-02TE]
E-45	ANDOVER - WILMOT - DANBURY	06-02TE	2008	ROW		NORTHERN RAIL TRAIL: IMPROVEMENTS: CONSTRUCT LEDGE PACK SURFACE ON NORTHERN RAIL CORRIDOR FROM DANBURY THROUGH WILMOT AND ENDING IN ANDOVER. APPROXIMATELY 8.3 MILES IN LENGTH. [06-02TE]
E-45	ANDOVER - WILMOT - DANBURY	06-02TE	2010	CON		NORTHERN RAIL TRAIL: IMPROVEMENTS: CONSTRUCT LEDGE PACK SURFACE ON NORTHERN RAIL CORRIDOR FROM DANBURY THROUGH WILMOT AND ENDING IN ANDOVER. APPROXIMATELY 8.3 MILES IN LENGTH. [06-02TE]
E-45	ANTRIM	06-03TE	2007	PE	US 202 / NH 31 MAIN STREET	REHABILITATION PHASE 2: CONTINUE EXISTING PROJECT TO RECONSTRUCT SIDEWALKS, SHOULDERS AND DRAINAGE TO IMPROVE THE DOWNTOWN PEDESTRIAN FACILITIES AND COMPLETE TRAFFIC CALMING AND PEDESTRIAN FLOW IMPROVEMENTS. [06-03TE]
E-45	ANTRIM	06-03TE	2008	PE	US 202 / NH 31 MAIN STREET	REHABILITATION PHASE 2: CONTINUE EXISTING PROJECT TO RECONSTRUCT SIDEWALKS, SHOULDERS AND DRAINAGE TO IMPROVE THE DOWNTOWN PEDESTRIAN FACILITIES AND COMPLETE TRAFFIC CALMING AND PEDESTRIAN FLOW IMPROVEMENTS. [06-03TE]
E-45	ANTRIM	06-03TE	2009	ROW	US 202 / NH 31 MAIN STREET	REHABILITATION PHASE 2: CONTINUE EXISTING PROJECT TO RECONSTRUCT SIDEWALKS, SHOULDERS AND DRAINAGE TO IMPROVE THE DOWNTOWN PEDESTRIAN FACILITIES AND COMPLETE TRAFFIC CALMING AND PEDESTRIAN FLOW IMPROVEMENTS. [06-03TE]
ATT	ASHLAND - BRIDGEWATER	14272	2007	ROW	US 3	BRIDGE PAINTING OVER PEMIGEWASSET RIVER - 076/080
ATT	ASHLAND - BRIDGEWATER	14272	2010	CON	US 3	BRIDGE PAINTING OVER PEMIGEWASSET RIVER - 076/080
E-10	ATKINSON - HAMPSTEAD		2008	PE	NH 111	RECONSTRUCT FROM CENTRAL STREET IN HAMPSTEAD TO THE SOUTHERN MOST ATKINSON / HAMPSTEAD TOWN LINE (3.2 MILES)

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-10	ATKINSON - HAMPSTEAD		2009	PE	NH 111	RECONSTRUCT FROM CENTRAL STREET IN HAMPSTEAD TO THE SOUTHERN MOST ATKINSON / HAMPSTEAD TOWN LINE (3.2 MILES)
E-10	ATKINSON - HAMPSTEAD		2009	ROW	NH 111	RECONSTRUCT FROM CENTRAL STREET IN HAMPSTEAD TO THE SOUTHERN MOST ATKINSON / HAMPSTEAD TOWN LINE (3.2 MILES)
ATT	BARNSTEAD - ALTON	14121	2008	PE	NH 28	RECONSTRUCTION FROM THE ALTON CIRCLE SOUTH APPROXIMATELY 7.0 MILES TO THE IMPROVED SECTION IN BARNSTEAD [Section 1702 - Designated Project; Demo Id NH040] [Sister Demo Id NH056 & NH069]
ATT	BARNSTEAD - ALTON	14121	2008	ROW	NH 28	RECONSTRUCTION FROM THE ALTON CIRCLE SOUTH APPROXIMATELY 7.0 MILES TO THE IMPROVED SECTION IN BARNSTEAD [Section 1702 - Designated Project; Demo Id NH040] [Sister Demo Id NH056 & NH069]
ATT	BARNSTEAD - ALTON	14121	2009	PE	NH 28	RECONSTRUCTION FROM THE ALTON CIRCLE SOUTH APPROXIMATELY 7.0 MILES TO THE IMPROVED SECTION IN BARNSTEAD [Section 1702 - Designated Project; Demo Id NH040] [Sister Demo Id NH056 & NH069]
ATT	BARNSTEAD - ALTON	14121	2009	ROW	NH 28	RECONSTRUCTION FROM THE ALTON CIRCLE SOUTH APPROXIMATELY 7.0 MILES TO THE IMPROVED SECTION IN BARNSTEAD [Section 1702 - Designated Project; Demo Id NH040] [Sister Demo Id NH056 & NH069]
ATT	BARNSTEAD - ALTON	14121	2009	CON	NH 28	RECONSTRUCTION FROM THE ALTON CIRCLE SOUTH APPROXIMATELY 7.0 MILES TO THE IMPROVED SECTION IN BARNSTEAD [Section 1702 - Designated Project; Demo Id NH040] [Sister Demo Id NH056 & NH069]
ATT	BARNSTEAD - ALTON	14121	2010	PE	NH 28	RECONSTRUCTION FROM THE ALTON CIRCLE SOUTH APPROXIMATELY 7.0 MILES TO THE IMPROVED SECTION IN BARNSTEAD [Section 1702 - Designated Project; Demo Id NH040] [Sister Demo Id NH056 & NH069]
ATT	BARNSTEAD - ALTON	14121	2010	ROW	NH 28	RECONSTRUCTION FROM THE ALTON CIRCLE SOUTH APPROXIMATELY 7.0 MILES TO THE IMPROVED SECTION IN BARNSTEAD [Section 1702 - Designated Project; Demo Id NH040] [Sister Demo Id NH056 & NH069]
ATT	BATH - LISBON	10425	2007	PE	US 302 / NH 10	ROADWAY & BRIDGE RECONSTRUCTION & RELOCATION OF APPROXIMATELY 8.9 km (5.5 mi) ALONG US 302 & NH 10 AND LOCAL ROADS (Pe & Row)
ATT	BATH - LISBON	10425	2008	PE	US 302 / NH 10	ROADWAY & BRIDGE RECONSTRUCTION & RELOCATION OF APPROXIMATELY 8.9 km (5.5 mi) ALONG US 302 & NH 10 AND LOCAL ROADS (Pe & Row)
ATT	BATH - LISBON	10425	2008	ROW	US 302 / NH 10	ROADWAY & BRIDGE RECONSTRUCTION & RELOCATION OF APPROXIMATELY 8.9 km (5.5 mi) ALONG US 302 & NH 10 AND LOCAL ROADS (Pe & Row)
ATT	BATH - LISBON	10425	2009	ROW	US 302 / NH 10	ROADWAY & BRIDGE RECONSTRUCTION & RELOCATION OF APPROXIMATELY 8.9 km (5.5 mi) ALONG US 302 & NH 10 AND LOCAL ROADS (Pe & Row)
ATT	BATH - LISBON	10425	2010	PE	US 302 / NH 10	ROADWAY & BRIDGE RECONSTRUCTION & RELOCATION OF APPROXIMATELY 8.9 km (5.5 mi) ALONG US 302 & NH 10 AND LOCAL ROADS (Pe & Row)
E-19	BEDFORD	13527	2007	PE	US 3	REPLACE BRIDGE OVER F.E.E.T 189/121 & ASSOCIATED APPROACH WORK
E-19	BEDFORD	13527	2010	CON	US 3	REPLACE BRIDGE OVER F.E.E.T 189/121 & ASSOCIATED APPROACH WORK
E-6	BEDFORD	13692A	2007	PE	NH 101	INTERSECTION IMPROVEMENT AT HARDY/JENKINS [Section 115 - Designated Project NH023]
E-6	BEDFORD	13692A	2007	ROW	NH 101	INTERSECTION IMPROVEMENT AT HARDY/JENKINS [Section 115 - Designated Project NH023]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-6	BEDFORD	13692A	2008	PE	NH 101	INTERSECTION IMPROVEMENT AT HARDY/JENKINS [Section 115 - Designated Project NH023]
E-6	BEDFORD	13692A	2008	CON	NH 101	INTERSECTION IMPROVEMENT AT HARDY/JENKINS [Section 115 - Designated Project NH023]
N/E	BEDFORD	13953	2007	PE	NH 101	WIDEN TO 5 LANES FOR APPROXIMATELY 2 MILES, FROM NH 114 TO WALLACE ROAD
N/E	BEDFORD	13953	2008	PE	NH 101	WIDEN TO 5 LANES FOR APPROXIMATELY 2 MILES, FROM NH 114 TO WALLACE ROAD
N/E	BEDFORD	13953	2009	PE	NH 101	WIDEN TO 5 LANES FOR APPROXIMATELY 2 MILES, FROM NH 114 TO WALLACE ROAD
N/E	BEDFORD	13953	2010	PE	NH 101	WIDEN TO 5 LANES FOR APPROXIMATELY 2 MILES, FROM NH 114 TO WALLACE ROAD
N/E	BEDFORD	13953	2012	ROW	NH 101	WIDEN TO 5 LANES FOR APPROXIMATELY 2 MILES, FROM NH 114 TO WALLACE ROAD
N/E	BEDFORD	13953	2014	CON	NH 101	WIDEN TO 5 LANES FOR APPROXIMATELY 2 MILES, FROM NH 114 TO WALLACE ROAD
N/E	BEDFORD - MANCHESTER - LONDONDERRY	11512A	2007	CON	AIRPORT ACCESS ROAD	CONSTRUCT BRIDGE OVER MERRIMACK RIVER, NH 3A, AND BRIDGE BOX CULVERT UNDER NH 3A FOR WILDLIFE CROSSING
N/E	BEDFORD - MANCHESTER - LONDONDERRY	11512A	2007	CON	AIRPORT ACCESS ROAD	CONSTRUCT BRIDGE OVER MERRIMACK RIVER, NH 3A, AND BRIDGE BOX CULVERT UNDER NH 3A FOR WILDLIFE CROSSING
N/E	BEDFORD - MANCHESTER - LONDONDERRY	11512C	2007	CON	AIRPORT ACCESS ROAD	CONSTRUCT FE EVERETT TPK BRIDGE OVER MANCHESTER AIPORT ACCESS ROAD (MAAR) AND RAMP A & C BRIDGES
N/E	BEDFORD - MANCHESTER - LONDONDERRY	11512C	2007	CON	AIRPORT ACCESS ROAD	CONSTRUCT FE EVERETT TPK BRIDGE OVER MANCHESTER AIPORT ACCESS ROAD (MAAR) AND RAMP A & C BRIDGES
N/E	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	11512F	2009	CON	AIRPORT ACCESS ROAD	CONSTRUCT US 3, RAMPS H AND J, AND AIRPORT ACCESS ROAD BRIDGE OVER US 3
N/E	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	11512F	2009	CON	AIRPORT ACCESS ROAD	CONSTRUCT US 3, RAMPS H AND J, AND AIRPORT ACCESS ROAD BRIDGE OVER US 3
N/E	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	11512Н	2009	CON	AIRPORT ACCESS ROAD	CONSTRUCT NORTH OF LITTLE COHAS BRIDGE AND FINAL PAVING TO NH 3A
N/E	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	11512Н	2010	CON	AIRPORT ACCESS ROAD	CONSTRUCT NORTH OF LITTLE COHAS BRIDGE AND FINAL PAVING TO NH 3A
N/E	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	11512I	2009	CON	AIRPORT ACCESS ROAD	WIDEN FE EVERETT TURNPIKE

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	11512I	2010	CON	AIRPORT ACCESS ROAD	WIDEN FE EVERETT TURNPIKE
DNA	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	11512J	2009	CON	AIRPORT ACCESS ROAD	EARTHWORK CONTRACT WEST OF THE MERRIMACK RIVER
N/E	BEDFORD - MANCHESTER - LONDONDERRY- MERRIMACK	11512D	2008	CON	AIRPORT ACCESS ROAD	CONSTRUCT ACCESS ROAD OVER LITTLE COHAS RIVER AND ACCESS ROAD TO THE MERRIMACK RIVER BRIDGE
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2007	PE	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2007	PE	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2007	ROW	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2007	ROW	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2008	PE	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2008	PE	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2008	ROW	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2009	PE	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2009	ROW	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2010	PE	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]
N/E	BEDFORD- MANCHESTER- LONDONDERRY- MERRIMACK	11512	2010	ROW	AIRPORT ACCESS ROAD	IMPROVE ACCESS FROM F.E.E.T. TO MANCHESTER AIRPORT AND SURROUNDING AREA, PRELIMINARY DESIGN PREPARATION EIS FINAL DESIGN [PE & ROW] [Section 1602 - Designated Project; Demo Id NH009]
E-45	BELMONT	06-06TE	2008	PE		PHASE 2, LAKE WINNISQUAM SCENIC TRAIL: CONSTRUCT HARD PACK GRAVEL SURFACE, 8' WIDE FROM US 3 IN BELMONT TO JEFFERSON ROAD IN BELMONT [06-06TE]
E-45	BELMONT	06-06TE	2009	PE		PHASE 2, LAKE WINNISQUAM SCENIC TRAIL: CONSTRUCT HARD PACK GRAVEL SURFACE, 8' WIDE FROM US 3 IN BELMONT TO JEFFERSON ROAD IN BELMONT [06-06TE]
E-45	BELMONT	06-06TE	2009	ROW		PHASE 2, LAKE WINNISQUAM SCENIC TRAIL: CONSTRUCT HARD PACK GRAVEL SURFACE, 8' WIDE FROM US 3 IN BELMONT TO JEFFERSON ROAD IN BELMONT [06-06TE]
ATT	BELMONT	12792	2008	PE	NH 140	UPGRADE FROM NORTHFIELD T/L THROUGH TO NH 106
ATT	BELMONT	12792	2009	PE	NH 140	UPGRADE FROM NORTHFIELD T/L THROUGH TO NH 106
ATT	BELMONT	12792	2009	ROW	NH 140	UPGRADE FROM NORTHFIELD T/L THROUGH TO NH 106
ATT	BELMONT	12792	2010	PE	NH 140	UPGRADE FROM NORTHFIELD T/L THROUGH TO NH 106
ATT	BELMONT	12792	2010	ROW	NH 140	UPGRADE FROM NORTHFIELD T/L THROUGH TO NH 106
ATT	BELMONT	14400	2008	CON	LAKE WINNISQUAM SCENIC TRAIL	CONSTRUCT A MULTI-USE TRAIL (Segments 9 & 10 - Approx 1.7 Miles) FROM US 3 TO THE TOWN BEACH ("Winnisquam Lake Trail" - 5.2 Miles)[04-03TE]
ATT	BELMONT - LACONIA		2008	PE	NH 106	RECONSTRUCT FROM 0.4 MILES NORTH OF US 3 / NH 11 BYPASS SOUTHERLY INTO BELMONT SOUTH OF OPECHEE PLAZA
ATT	BELMONT - LACONIA		2009	PE	NH 106	RECONSTRUCT FROM 0.4 MILES NORTH OF US 3 / NH 11 BYPASS SOUTHERLY INTO BELMONT SOUTH OF OPECHEE PLAZA
ATT	BELMONT - LACONIA		2009	ROW	NH 106	RECONSTRUCT FROM 0.4 MILES NORTH OF US 3 / NH 11 BYPASS SOUTHERLY INTO BELMONT SOUTH OF OPECHEE PLAZA
E-33	BENNINGTON	14401	2007	ROW	VARIOUS	VILLAGE PEDESTRIAN IMPROVEMENTS: RECONSTRUCT APPROX. 2,800' OF ROADSIDE IN THE VILLAGE TO RESTORE DEFINITION OF PEDESTRIAN ACCESS BY WAY OF SIDEWALKS AND CROSSWALKS. RECONSTRUCT SIDEWALKS, DELINEATION OF ROADWAY AND PARKING WITH GRANITE CURBING. IMPROV
E-33	BENNINGTON	14401	2007	CON	VARIOUS	VILLAGE PEDESTRIAN IMPROVEMENTS: RECONSTRUCT APPROX. 2,800' OF ROADSIDE IN THE VILLAGE TO RESTORE DEFINITION OF PEDESTRIAN ACCESS BY WAY OF SIDEWALKS AND CROSSWALKS. RECONSTRUCT SIDEWALKS, DELINEATION OF ROADWAY AND PARKING WITH GRANITE CURBING. IMPROV

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	BERLIN	12958B	2007	PE	NH 110	PHASE 2 RECONSTRUCTION FROM FIRST AVENUE TO WIGHT STREET (APPROX.0.7 MILES) [Section 1702 - Designated Project; Demo Id NH043] [Sister Demo Id NH062]
ATT	BERLIN	12958B	2007	ROW	NH 110	PHASE 2 RECONSTRUCTION FROM FIRST AVENUE TO WIGHT STREET (APPROX.0.7 MILES) [Section 1702 - Designated Project; Demo Id NH043] [Sister Demo Id NH062]
ATT	BERLIN	12958B	2008	ROW	NH 110	PHASE 2 RECONSTRUCTION FROM FIRST AVENUE TO WIGHT STREET (APPROX.0.7 MILES) [Section 1702 - Designated Project; Demo Id NH043] [Sister Demo Id NH062]
ATT	BERLIN	12958B	2009	ROW	NH 110	PHASE 2 RECONSTRUCTION FROM FIRST AVENUE TO WIGHT STREET (APPROX.0.7 MILES) [Section 1702 - Designated Project; Demo Id NH043] [Sister Demo Id NH062]
ATT	BERLIN	12958B	2009	CON	NH 110	PHASE 2 RECONSTRUCTION FROM FIRST AVENUE TO WIGHT STREET (APPROX.0.7 MILES) [Section 1702 - Designated Project; Demo Id NH043] [Sister Demo Id NH062]
ATT	ВЕТНГЕНЕМ	13087	2007	CON	US 302	CORRECTION OF TRAFFIC & PEDESTRIAN SAFETY DEFICIENCIES; INCLUDING SIDEWALKS, CURBING, CROSSWALKS, SIGNING, & LIGHTING IN THE CENTER OF TOWN [98-77TE]
E-51	BOSCAWEN	13957	2007	ROW	US 4	RECONSTRUCT INTERSECTION @ GOODHUE ROAD AND RAYMOND ROAD
E-51	BOSCAWEN	13957	2010	CON	US 4	RECONSTRUCT INTERSECTION @ GOODHUE ROAD AND RAYMOND ROAD
E-33	BOSCAWEN	14402	2007	PE	NORTH MAIN ST	KING ST SIDEWALK CONNECTOR: CONSTRUCT SIDEWALKS ALONG NORTH MAIN ST FROM EXISTING SIDEWALK TO INTERSECTION OF US 3/4 & FROM US 3/4 INTERSECTION TO RIVER RD CONNECTING WITH EXISTING SIDEWALK ON KING ST. PROVIDE PED WALK SIGNAL AND CROSS WALKS AT US 3/4
E-33	BOSCAWEN	14402	2008	CON	NORTH MAIN ST	KING ST SIDEWALK CONNECTOR: CONSTRUCT SIDEWALKS ALONG NORTH MAIN ST FROM EXISTING SIDEWALK TO INTERSECTION OF US 3/4 & FROM US 3/4 INTERSECTION TO RIVER RD CONNECTING WITH EXISTING SIDEWALK ON KING ST. PROVIDE PED WALK SIGNAL AND CROSS WALKS AT US 3/4
N/E	BOW - CONCORD	13742	2007	PE	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2008	PE	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2009	PE	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2009	ROW	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2010	PE	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2010	ROW	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2011	ROW	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2012	ROW	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
N/E	BOW - CONCORD	13742	2014	CON	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	BOW - CONCORD	13742	2015	CON	I-93	WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116
E-6	CHESTERFIELD	13597	2007	PE	NH 63	RECONSTRUCTION ON NEW LOCATION IN AREA OF SPOFFORD LAKE
E-6	CHESTERFIELD	13597	2007	ROW	NH 63	RECONSTRUCTION ON NEW LOCATION IN AREA OF SPOFFORD LAKE
E-6	CHESTERFIELD	13597	2008	PE	NH 63	RECONSTRUCTION ON NEW LOCATION IN AREA OF SPOFFORD LAKE
E-6	CHESTERFIELD	13597	2008	ROW	NH 63	RECONSTRUCTION ON NEW LOCATION IN AREA OF SPOFFORD LAKE
E-6	CHESTERFIELD	13597	2009	PE	NH 63	RECONSTRUCTION ON NEW LOCATION IN AREA OF SPOFFORD LAKE
E-6	CHESTERFIELD	13597	2009	ROW	NH 63	RECONSTRUCTION ON NEW LOCATION IN AREA OF SPOFFORD LAKE
E-6	CHESTERFIELD	13597	2010	PE	NH 63	RECONSTRUCTION ON NEW LOCATION IN AREA OF SPOFFORD LAKE
ATT	CLAREMONT	13248	2007	PE	NH 12	NORTH STREET INTERSECTION RELOCATION [Section 1702 - Designated Project; Demo Id NH039] [Sister Demo Id NH059]
ATT	CLAREMONT	13248	2007	ROW	NH 12	NORTH STREET INTERSECTION RELOCATION [Section 1702 - Designated Project; Demo Id NH039] [Sister Demo Id NH059]
ATT	CLAREMONT	13248	2008	PE	NH 12	NORTH STREET INTERSECTION RELOCATION [Section 1702 - Designated Project; Demo Id NH039] [Sister Demo Id NH059]
ATT	CLAREMONT	13248	2008	ROW	NH 12	NORTH STREET INTERSECTION RELOCATION [Section 1702 - Designated Project; Demo Id NH039] [Sister Demo Id NH059]
ATT	CLAREMONT	13248	2009	PE	NH 12	NORTH STREET INTERSECTION RELOCATION [Section 1702 - Designated Project; Demo Id NH039] [Sister Demo Id NH059]
ATT	CLAREMONT	14494	2007	PE	NH 11/ NH 12	RECONSTRUCTION AND UPGRADE OF THE INTERSECTIONS OF MAPLE AVENUE, PLEASANT STREET (DRAPER'S CORNER), AND CHARLESTOWN RD [Section 117 - Designated Project; Demo Id NH030] [Sister Demo Id NH047 & 065]
ATT	CLAREMONT	14494	2008	PE	NH 11/ NH 12	RECONSTRUCTION AND UPGRADE OF THE INTERSECTIONS OF MAPLE AVENUE, PLEASANT STREET (DRAPER'S CORNER), AND CHARLESTOWN RD [Section 117 - Designated Project; Demo Id NH030] [Sister Demo Id NH047 & 065]
ATT	CLAREMONT	14494	2008	ROW	NH 11/ NH 12	RECONSTRUCTION AND UPGRADE OF THE INTERSECTIONS OF MAPLE AVENUE, PLEASANT STREET (DRAPER'S CORNER), AND CHARLESTOWN RD [Section 117 - Designated Project; Demo Id NH030] [Sister Demo Id NH047 & 065]
ATT	CLAREMONT	14494	2009	PE	NH 11/ NH 12	RECONSTRUCTION AND UPGRADE OF THE INTERSECTIONS OF MAPLE AVENUE, PLEASANT STREET (DRAPER'S CORNER), AND CHARLESTOWN RD [Section 117 - Designated Project; Demo Id NH030] [Sister Demo Id NH047 & 065]
ATT	CLAREMONT	14494	2009	ROW	NH 11/ NH 12	RECONSTRUCTION AND UPGRADE OF THE INTERSECTIONS OF MAPLE AVENUE, PLEASANT STREET (DRAPER'S CORNER), AND CHARLESTOWN RD [Section 117 - Designated Project; Demo Id NH030] [Sister Demo Id NH047 & 065]
ATT	CLAREMONT	14494	2010	ROW	NH 11/ NH 12	RECONSTRUCTION AND UPGRADE OF THE INTERSECTIONS OF MAPLE AVENUE, PLEASANT STREET (DRAPER'S CORNER), AND CHARLESTOWN RD [Section 117 - Designated Project; Demo Id NH030] [Sister Demo Id NH047 & 065]
ATT	CLAREMONT	14494	2010	CON	NH 11/ NH 12	RECONSTRUCTION AND UPGRADE OF THE INTERSECTIONS OF MAPLE AVENUE, PLEASANT STREET (DRAPER'S CORNER), AND CHARLESTOWN RD [Section 117 - Designated Project; Demo Id NH030] [Sister Demo Id NH047 & 065]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-24	COAST		2007	UNK	COAST	MISC. SUPPORT EQUIPMENT
E-28	COAST		2007	UNK	COAST	MISC. BUS STATION EQUIPMENT
E-36	COAST		2007	UNK	COAST	GENERAL & COMPREHENSIVE PLANNING
E-24	COAST		2008	UNK	COAST	MISC. SUPPORT EQUIPMENT
E-28	COAST		2008	UNK	COAST	MISC. BUS STATION EQUIPMENT
E-36	COAST		2008	UNK	COAST	GENERAL & COMPREHENSIVE PLANNING
E-24	COAST		2009	UNK	COAST	MISC. SUPPORT EQUIPMENT
E-28	COAST		2009	UNK	COAST	MISC. BUS STATION EQUIPMENT
E-36	COAST		2009	UNK	COAST	GENERAL & COMPREHENSIVE PLANNING
E-24	COAST		2010	UNK	COAST	MISC. SUPPORT EQUIPMENT
E-28	COAST		2010	UNK	COAST	MISC. BUS STATION EQUIPMENT
E-36	COAST		2010	UNK	COAST	GENERAL & COMPREHENSIVE PLANNING
ATT	COLEBROOK	13476	2008	PE	NH 26	BRIDGE REHABILITATION OVER MOHAWK RIVER - 147/068
ATT	COLEBROOK	13476	2010	PE	NH 26	BRIDGE REHABILITATION OVER MOHAWK RIVER - 147/068
ATT	COLEBROOK	13476	2010	ROW	NH 26	BRIDGE REHABILITATION OVER MOHAWK RIVER - 147/068
ATT	COLEBROOK	P2493E	2007	CON	US 3	INSTALL RWIS IN VICINITY OF COLEBROOK WELCOME CENTER
E-34	CONCORD		2007	PE	I-393	FEASIBILITY STUDY OF INTERCHANGE (EXIT 2 1/2) TO CONNECT I-393 TO STEEPLEGATE MALL
E-34	CONCORD		2008	PE	I-393	FEASIBILITY STUDY OF INTERCHANGE (EXIT 2 1/2) TO CONNECT I-393 TO STEEPLEGATE MALL
N/E	CONCORD	06-02CM	2009	PE	STORRS STREET	PARK AND RIDE
N/E	CONCORD	06-02CM	2010	ROW	STORRS STREET	PARK AND RIDE
E-19	CONCORD	12004	2007	PE	SEWALLS FALLS ROAD	REPLACE BRIDGE OVER MERRIMACK RIVER - 070/117 [Section 1702 - Designated Project; Demo Id NH045]
E-19	CONCORD	12004	2007	ROW	SEWALLS FALLS ROAD	REPLACE BRIDGE OVER MERRIMACK RIVER - 070/117 [Section 1702 - Designated Project; Demo Id NH045]
E-19	CONCORD	12004	2008	PE	SEWALLS FALLS ROAD	REPLACE BRIDGE OVER MERRIMACK RIVER - 070/117 [Section 1702 - Designated Project; Demo Id NH045]
E-19	CONCORD	12004	2008	ROW	SEWALLS FALLS ROAD	REPLACE BRIDGE OVER MERRIMACK RIVER - 070/117 [Section 1702 - Designated Project; Demo Id NH045]
E-19	CONCORD	12004	2009	PE	SEWALLS FALLS ROAD	REPLACE BRIDGE OVER MERRIMACK RIVER - 070/117 [Section 1702 - Designated Project; Demo Id NH045]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-19	CONCORD	12004	2009	ROW	SEWALLS FALLS ROAD	REPLACE BRIDGE OVER MERRIMACK RIVER - 070/117 [Section 1702 - Designated Project; Demo Id NH045]
E-19	CONCORD	12004	2010	CON	SEWALLS FALLS ROAD	REPLACE BRIDGE OVER MERRIMACK RIVER - 070/117 [Section 1702 - Designated Project; Demo Id NH045]
N/E	CONCORD	13184C	2007	ROW	I-393	CONSTRUCT DRAINAGE AND OVERLAY PAVEMENT FROM NORTH MAIN STREET EAST TO HORSE SHOE POND INTERSECTION
N/E	CONCORD	13184C	2007	CON	I-393	CONSTRUCT DRAINAGE AND OVERLAY PAVEMENT FROM NORTH MAIN STREET EAST TO HORSE SHOE POND INTERSECTION
E-33	CONCORD	13481	2007	CON		COMPLETE PEDESTRIAN CONNECTIONS FROM CONFERENCE CENTER TO MULTI- MODAL TRANSPORTATION CENTER & DOWNTOWN [00-16TE]
N/E	CONCORD	13860	2007	CON	LOUDON RD / PEMBROKE RD / OLD TPK RD	CONSTRUCT COMBINATION OF SIDEWALKS & BIKE PATHS ALONG WITH CURBING, DRAINAGE [02-03CM]
N/E	CONCORD	13865	2007	CON	US 3	CONSTRUCT SIDEWALKS TO AASHTO STANDARDS TO FILL IN EXISTING SIDEWALK GAPS REDUCE MOTOR VEHICLE TRAFFIC [02-05CM]
E-45	CONCORD	13889	2007	CON		NORTH MAIN STREET; CAT BUS SHELTERS - EAGLE SQUARE & NH STATE HOUSE: DESIGN AND CONSTRUCT 2 BUS SHELTERS ON NORTH MAIN STREET, ONE IN FRONT OF NH STATE HOUSE AND A SECOND ONE ACROSS THE STREET IN FRONT OF THE HISTORIC EAGLE SQUARE HOTEL [02-14TE]
N/E	CONCORD	14426	2007	PE	CENTRE, LIBERTY, & AUBURN ST	CONSTRUCT ROUNDABOUT AT INTERSECTION OF CENTRE, LIBERTY, & AUBURN ST. $[04\text{-}10\text{CM}]$
N/E	CONCORD	14426	2007	ROW	CENTRE, LIBERTY, & AUBURN ST	CONSTRUCT ROUNDABOUT AT INTERSECTION OF CENTRE, LIBERTY, & AUBURN ST. $[04\text{-}10\text{CM}]$
N/E	CONCORD	14426	2007	CON	CENTRE, LIBERTY, & AUBURN ST	CONSTRUCT ROUNDABOUT AT INTERSECTION OF CENTRE, LIBERTY, & AUBURN ST. $[04\text{-}10\text{CM}]$
E-6	CONCORD - LACONIA	10672	2007	ROW	NH 106	ROADWAY RECONSTRUCTION & IMPROVEMENTS FROM I-393 INTERCHANGE TO THE LACONIA BYPASS (Pe & Row)
E-6	CONCORD - LACONIA	10672	2008	ROW	NH 106	ROADWAY RECONSTRUCTION & IMPROVEMENTS FROM I-393 INTERCHANGE TO THE LACONIA BYPASS (Pe & Row)
ATT	CONWAY		2007	PE	NH 16	BRIDGE REHABILITATION OVER SACO RIVER - 170/071
ATT	CONWAY		2008	ROW	NH 16	BRIDGE REHABILITATION OVER SACO RIVER - 170/071
E-45	CONWAY	06-11TE	2007	PE	NH 16	VILLAGE STREETSCAPE PROJECT: REDESIGN WORK INCLUDES SIDEWALK UPGRADES, CROSS WALKS, UTILITY RELOCATION, LANDSCAPING, LIGHTING, AND GATEWAY MARKERS. [06-11TE]
E-45	CONWAY	06-11TE	2008	PE	NH 16	VILLAGE STREETSCAPE PROJECT: REDESIGN WORK INCLUDES SIDEWALK UPGRADES, CROSS WALKS, UTILITY RELOCATION, LANDSCAPING, LIGHTING, AND GATEWAY MARKERS. [06-11TE]
E-45	CONWAY	06-11TE	2009	CON	NH 16	VILLAGE STREETSCAPE PROJECT: REDESIGN WORK INCLUDES SIDEWALK UPGRADES, CROSS WALKS, UTILITY RELOCATION, LANDSCAPING, LIGHTING, AND GATEWAY MARKERS. [06-11TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	CONWAY	11339B	2007	PE	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
ATT	CONWAY	11339B	2007	ROW	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
ATT	CONWAY	11339B	2008	PE	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
ATT	CONWAY	11339B	2008	ROW	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
ATT	CONWAY	11339B	2009	PE	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
ATT	CONWAY	11339B	2009	ROW	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
ATT	CONWAY	11339B	2010	PE	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
ATT	CONWAY	11339B	2010	ROW	US 302 / NH 16	DESIGN & ROW ACQUISITIONS OF THE US 302 / NH 16 CONWAY BYPASS PHASES TO PROVIDE CONGESTION RELIEF [PE & ROW Only; CONSTRUCTION BROKEN INTO OTHER 11339 PROJECTS] [Section 1602 - Designated Project; Demo Id NH004]
E-52	DANBURY		2008	PE	US 4 & NH 104	INTERSECTION IMPROVEMENTS TO IMPROVE SIGHT DISTANCE, SAFETY AND TRAFFIC FLOW, AND PROVIDE PEDESTRIAN ACCESS AS NEEDED
E-52	DANBURY		2009	PE	US 4 & NH 104	INTERSECTION IMPROVEMENTS TO IMPROVE SIGHT DISTANCE, SAFETY AND TRAFFIC FLOW, AND PROVIDE PEDESTRIAN ACCESS AS NEEDED
E-52	DANBURY		2009	ROW	US 4 & NH 104	INTERSECTION IMPROVEMENTS TO IMPROVE SIGHT DISTANCE, SAFETY AND TRAFFIC FLOW, AND PROVIDE PEDESTRIAN ACCESS AS NEEDED
E-52	DANBURY		2010	PE	US 4 & NH 104	INTERSECTION IMPROVEMENTS TO IMPROVE SIGHT DISTANCE, SAFETY AND TRAFFIC FLOW, AND PROVIDE PEDESTRIAN ACCESS AS NEEDED
E-52	DERRY		2008	PE	NH 28	INTERSECTION IMPROVEMENTS AT KILREA ROAD & WINDHAM DEPOT ROAD
E-52	DERRY		2009	PE	NH 28	INTERSECTION IMPROVEMENTS AT KILREA ROAD & WINDHAM DEPOT ROAD
E-52	DERRY		2009	ROW	NH 28	INTERSECTION IMPROVEMENTS AT KILREA ROAD & WINDHAM DEPOT ROAD
E-51	DERRY	13249	2007	PE	NH 28	INTERSECTION IMPROVEMENT @ NH 102
E-51	DERRY	13249	2007	ROW	NH 28	INTERSECTION IMPROVEMENT @ NH 102
E-51	DERRY	13249	2008	PE	NH 28	INTERSECTION IMPROVEMENT @ NH 102
E-51	DERRY	13249	2008	ROW	NH 28	INTERSECTION IMPROVEMENT @ NH 102
E-51	DERRY	13249	2008	CON	NH 28	INTERSECTION IMPROVEMENT @ NH 102

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	DERRY / LONDONDERRY	13065	2011	CON	I-93	CONSTRUCTION OF EXIT 4A - NEW INTERCHANGE BETWEEN EXISTING EXIT 4 AND EXIT 5 TO: (1) RELIEVE TRAFFIC; (2) ALLOW ACCESS TO POTENTIAL DEVELOPMENT OF INDUSTRIAL LAND
E-19	DOVER	13042	2007	PE	NH 9	REPLACE BRIDGE OVER B&M RAILROAD - 109/106
E-19	DOVER	13042	2009	CON	NH 9	REPLACE BRIDGE OVER B&M RAILROAD - 109/106
E-33	DOVER	13482	2007	CON	NH 108	CONSTRUCT BIKE PATH ALONG RAIL LINE FROM RAIL STATION TO NH 108 / BELLAMY PARK [00-20TE]
E-19	DOVER	13796	2007	PE	WASHINGTON STREET	BRIDGE REHABILITATION OVER B&M RAILROAD - 120/118
E-19	DOVER	13796	2008	CON	WASHINGTON STREET	BRIDGE REHABILITATION OVER B&M RAILROAD - 120/118
E-19	DOVER	13945	2007	PE	WASHINGTON STREET	BRIDGE REPLACEMENT OVER COCHECO RIVER - 136/123 (FUTURE)
E-19	DOVER	13945	2007	ROW	WASHINGTON STREET	BRIDGE REPLACEMENT OVER COCHECO RIVER - 136/123 (FUTURE)
E-19	DOVER	13945	2008	CON	WASHINGTON STREET	BRIDGE REPLACEMENT OVER COCHECO RIVER - 136/123 (FUTURE)
N/E	DOVER - PORTSMOUTH - BOSTON	06-05CM	2007	PE		INCREASED TRANSIT SERVICE AND INTERCITY BUS MARKETING CAMPAIGN FOR NH 16 / I-95 CORRIDORS [06-05CM & 06-23CM]
N/E	DOVER - PORTSMOUTH - BOSTON	06-05CM	2007	CON		INCREASED TRANSIT SERVICE AND INTERCITY BUS MARKETING CAMPAIGN FOR NH 16 / I-95 CORRIDORS [06-05CM & 06-23CM]
N/E	DOVER - ROCHESTER - SOMERSWORTH		2011	PE	NH 108	WIDENING AND RECONST. FROM THE WEEKS CORNER INT. NORTH 4.8 MILES TO THE NH 108 INT. WITH GRANITE PARKWAY IN ROCHESTER AND WIDENING OF SIXTH ST. CONNECTOR BRIDGE OVER THE SPAULDING TPK AT EXIT 9 WITH NB OFF-RAMP RECONST.
N/E	DOVER - ROCHESTER - SOMERSWORTH		2013	ROW	NH 108	WIDENING AND RECONST. FROM THE WEEKS CORNER INT. NORTH 4.8 MILES TO THE NH 108 INT. WITH GRANITE PARKWAY IN ROCHESTER AND WIDENING OF SIXTH ST. CONNECTOR BRIDGE OVER THE SPAULDING TPK AT EXIT 9 WITH NB OFF-RAMP RECONST.
N/E	DOVER - ROCHESTER - SOMERSWORTH		2016	CON	NH 108	WIDENING AND RECONST. FROM THE WEEKS CORNER INT. NORTH 4.8 MILES TO THE NH 108 INT. WITH GRANITE PARKWAY IN ROCHESTER AND WIDENING OF SIXTH ST. CONNECTOR BRIDGE OVER THE SPAULDING TPK AT EXIT 9 WITH NB OFF-RAMP RECONST.
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2007	PE	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2007	ROW	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2008	PE	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2008	ROW	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2009	PE	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2009	ROW	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2010	PE	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429	2010	ROW	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 & EASTERLY CONNECTION (PE & ROW ACQUISITIONS)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429B	2014	CON	SPAULDING TPK	CONSTRUCTION OF EXIT 10 AND EASTERLY CONNECTION - Phase 1
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429C	2015	CON	SPAULDING TURNPIKE	CONSTRUCTION OF EXIT 10 AND EASTERLY CONNECTION - Phase 2
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429D	2016	CON	SPAULDING TPK	CONSTRUCTION OF EXIT 10 AND EASTERLY CONNECTION - Phase 3
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429E	2008	PE	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 FOR ELIGIBLE FEDERALLY FUNDED AREAS (PE & ROW). STATE MATCHING FUNDS PROGRAMMED UNDER 11429F USING TURNPIKE FUNDS
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429E	2008	ROW	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 FOR ELIGIBLE FEDERALLY FUNDED AREAS (PE & ROW). STATE MATCHING FUNDS PROGRAMMED UNDER 11429F USING TURNPIKE FUNDS
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429E	2009	PE	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 FOR ELIGIBLE FEDERALLY FUNDED AREAS (PE & ROW). STATE MATCHING FUNDS PROGRAMMED UNDER 11429F USING TURNPIKE FUNDS
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429E	2009	ROW	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 FOR ELIGIBLE FEDERALLY FUNDED AREAS (PE & ROW). STATE MATCHING FUNDS PROGRAMMED UNDER 11429F USING TURNPIKE FUNDS
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429F	2008	PE	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 (ADMINISTRATIVE PROJECT SLIP FOR FEDERAL MATCH FOR 11429E)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429F	2008	ROW	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 (ADMINISTRATIVE PROJECT SLIP FOR FEDERAL MATCH FOR 11429E)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429F	2009	PE	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 (ADMINISTRATIVE PROJECT SLIP FOR FEDERAL MATCH FOR 11429E)
N/E	DOVER - ROCHESTER - SOMERSWORTH	11429F	2009	ROW	SPAULDING TURNPIKE	FINAL DESIGN OF EXIT 10 (ADMINISTRATIVE PROJECT SLIP FOR FEDERAL MATCH FOR 11429E)
E-33	DUBLIN	14318	2007	CON	NH 101	IMPROVEMENTS WITHIN THE VILLAGE AREA TO ENHANCE PEDESTRIAN SAFETY THROUGH TRAFFIC CALMING [Section 115 - Designated Project NH027]
E-33	DUBLIN	14319	2007	CON	NH 101 / MAIN ST	PHASE 1: NH 101 PEDESTRIAN IMPROVEMENTS - CONSTRUCT 6,000' SIDEWALK ADJACENT TO MAIN ST. PHASE 1: PEDESTRIAN IMPROVEMENTS [04-11TE]
ATT	DUMMER - CAMBRIDGE - ERROL		2008	PE	NH 16	WIDEN & REHABILITATE FROM ERROL SOUTHERLY 10 MILES
ATT	DUMMER - CAMBRIDGE - ERROL		2009	PE	NH 16	WIDEN & REHABILITATE FROM ERROL SOUTHERLY 10 MILES
ATT	DUMMER - CAMBRIDGE - ERROL		2009	ROW	NH 16	WIDEN & REHABILITATE FROM ERROL SOUTHERLY 10 MILES
E-33	DUNBARTON	14403	2008	PE	NH 13 / SCHOOL ST / ROGERS RD	TOWN GREEN SAFETY IMPROVEMENT PLAN - REALIGN & CONSTRUCT SIDEWALKS ON ROBERTS ROGERS ROAD TO A "T" INTERSECTION WITH NH 13. CONSTRUCT SIDEWALKS ON ROGERS ROAD FROM ELEMENTARY SCHOOL TO TOWN HALL, COMMON AND LIBRARY AREAS. AND ON NH 13 & SCHOOL ST IN TO

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-33	DUNBARTON	14403	2009	CON	NH 13 / SCHOOL ST / ROGERS RD	TOWN GREEN SAFETY IMPROVEMENT PLAN - REALIGN & CONSTRUCT SIDEWALKS ON ROBERTS ROGERS ROAD TO A "T" INTERSECTION WITH NH 13. CONSTRUCT SIDEWALKS ON ROGERS ROAD FROM ELEMENTARY SCHOOL TO TOWN HALL, COMMON AND LIBRARY AREAS. AND ON NH 13 & SCHOOL ST IN TO
E-6	DURHAM	13867	2007	CON	MAIN STREET	RECONSTRUCT MAIN ST TO PERMIT BI-DIRECTION TRANSIT SHUTTLE SERVICE / PROJECT INCLUDES BIKE/PED SAFETY IMPROVEMENTS FROM WESTERN EDGE OF CAMPUS TO DOWNTOWN @ PETTEE BROOK LANE [02-07CM] & LIGHTING [06-29CM]
N/E	DURHAM	13868	2007	CON		EXPAND OR REPLACE ACCESSIBLE RAIL PLATFORM, STATION RENOVATION TO INCLUDE DEDICATED INDOOR TRAVELER WAITING SPACE AND CONSTRUCTION TO PROVIDE INTERMODAL BUS ACCESS TO PLATFORM AREA [02-08CM]
N/E	DURHAM	13869	2007	PE		PURCHASE THREE 14 PASSENGER TRANSIT VEHICLE FOR EXPANSION OF UNH WILDCAT SHUTTLE SYSTEM BEYOND CORE CAMPUS AREAS [02-09CM]
N/E	DURHAM	13869	2007	CON		PURCHASE THREE 14 PASSENGER TRANSIT VEHICLE FOR EXPANSION OF UNH WILDCAT SHUTTLE SYSTEM BEYOND CORE CAMPUS AREAS [02-09CM]
E-28	DURHAM	14404	2007	CON	UNH RAIL STATION	UNH RAIL STATION RENOVATION - RENOVATE THE HISTORIC ELEMENTS OF THE DURHAM RAIL STATION AND RELATED ELEMENTS. RESTORE THE SIGNAL SEMAPHORE LOCATED ATOP THE STATION [04-15TE]
E-33	DURHAM	14405	2008	PE	NH155 A / MAIN ST	NH 155A MAIN STREET IMPROVEMENTS - CONSTRUCT SIDEWALKS, MULTI-USE PATHS & BICYCLE SHOULDERS ALONG NH 155A FOR APPROXIMATELY 1.1 MILES APPROACHING THE UNH CAMPUS AND DOWNTOWN DURHAM [04-13TE]
E-33	DURHAM	14405	2008	ROW	NH155 A / MAIN ST	NH 155A MAIN STREET IMPROVEMENTS - CONSTRUCT SIDEWALKS, MULTI-USE PATHS & BICYCLE SHOULDERS ALONG NH 155A FOR APPROXIMATELY 1.1 MILES APPROACHING THE UNH CAMPUS AND DOWNTOWN DURHAM [04-13TE]
E-33	DURHAM	14405	2009	CON	NH155 A / MAIN ST	NH 155A MAIN STREET IMPROVEMENTS - CONSTRUCT SIDEWALKS, MULTI-USE PATHS & BICYCLE SHOULDERS ALONG NH 155A FOR APPROXIMATELY 1.1 MILES APPROACHING THE UNH CAMPUS AND DOWNTOWN DURHAM [04-13TE]
N/E	DURHAM	14427	2008	PE	WILDCAT TRANSIT	FLEET REPLACEMENT - PHASE III; PURCHASE CNG OR LOW EMISSION DIESEL (OR EITHER FUEL SOURCE COMBINED WITH HYBRID ELECTRIC SYSTEMS) TRANSIT VEHICLES FOR REPLACEMENT OF EXISTING WILDCAT GAS/DIESEL TRANSIT VEHICLES AND EXPANSION OF TRANSIT FLEET. FUNDS FOR 3-
E-33	DURHAM - NEWMARKET	13080	2007	PE	NH 108	CONSTRUCT 4' BIKE SHOULDERS FROM OYSTER RIVER BRIDGE TO DAME ROAD AND SANBORN AVE IN NEWMARKET (3.4MI) [98-17TE]
E-33	DURHAM - NEWMARKET	13080	2007	ROW	NH 108	CONSTRUCT 4' BIKE SHOULDERS FROM OYSTER RIVER BRIDGE TO DAME ROAD AND SANBORN AVE IN NEWMARKET (3.4MI) [98-17TE]
E-33	DURHAM - NEWMARKET	13080	2008	ROW	NH 108	CONSTRUCT 4' BIKE SHOULDERS FROM OYSTER RIVER BRIDGE TO DAME ROAD AND SANBORN AVE IN NEWMARKET (3.4MI) [98-17TE]
ATT	ENFIELD	12967	2007	PE	MAIN STREET & NH 4A	BRIDGE REPLACEMENT ON MAIN STREET OVER MASCOMA LAKE - 077/139; NH 4A, REHAB. PAVEMENT, ADD SHOULDERS, IMPROVE DRAINAGE
ATT	ENFIELD	12967	2008	PE	MAIN STREET & NH 4A	BRIDGE REPLACEMENT ON MAIN STREET OVER MASCOMA LAKE - 077/139; NH 4A, REHAB. PAVEMENT, ADD SHOULDERS, IMPROVE DRAINAGE
ATT	ENFIELD	12967	2008	ROW	MAIN STREET & NH 4A	BRIDGE REPLACEMENT ON MAIN STREET OVER MASCOMA LAKE - 077/139; NH 4A, REHAB. PAVEMENT, ADD SHOULDERS, IMPROVE DRAINAGE
ATT	ENFIELD	12967	2009	PE	MAIN STREET & NH 4A	BRIDGE REPLACEMENT ON MAIN STREET OVER MASCOMA LAKE - 077/139; NH 4A, REHAB. PAVEMENT, ADD SHOULDERS, IMPROVE DRAINAGE

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	ENFIELD	12967	2009	ROW	MAIN STREET & NH 4A	BRIDGE REPLACEMENT ON MAIN STREET OVER MASCOMA LAKE - 077/139; NH 4A, REHAB. PAVEMENT, ADD SHOULDERS, IMPROVE DRAINAGE
ATT	ENFIELD	14406	2007	PE	MAPLE ST	CONSTRUCT A SIDEWALK ALONG MAPLE STREET FROM US 4 TO THE INTERSECTION OF LARAMIE FARMS ACCESS ROAD PROVIDING CONNECTIVITY FROM THE NEIGHBORHOOD TO THE ENFIELD VILLAGE [04-16TE]
ATT	ENFIELD	14406	2007	ROW	MAPLE ST	CONSTRUCT A SIDEWALK ALONG MAPLE STREET FROM US 4 TO THE INTERSECTION OF LARAMIE FARMS ACCESS ROAD PROVIDING CONNECTIVITY FROM THE NEIGHBORHOOD TO THE ENFIELD VILLAGE [04-16TE]
ATT	ENFIELD	14406	2008	ROW	MAPLE ST	CONSTRUCT A SIDEWALK ALONG MAPLE STREET FROM US 4 TO THE INTERSECTION OF LARAMIE FARMS ACCESS ROAD PROVIDING CONNECTIVITY FROM THE NEIGHBORHOOD TO THE ENFIELD VILLAGE [04-16TE]
ATT	ENFIELD	14406	2008	CON	MAPLE ST	CONSTRUCT A SIDEWALK ALONG MAPLE STREET FROM US 4 TO THE INTERSECTION OF LARAMIE FARMS ACCESS ROAD PROVIDING CONNECTIVITY FROM THE NEIGHBORHOOD TO THE ENFIELD VILLAGE [04-16TE]
ATT	ENFIELD - LEBANON	13962	2007	PE	I-89	REHAB FROM EXIT 15 TO EXIT 17 (4.0 MILES) [4R]
ATT	ENFIELD - LEBANON	13962	2007	ROW	I-89	REHAB FROM EXIT 15 TO EXIT 17 (4.0 MILES) [4R]
ATT	ENFIELD - LEBANON	13962	2008	PE	I-89	REHAB FROM EXIT 15 TO EXIT 17 (4.0 MILES) [4R]
ATT	ENFIELD - LEBANON	13962	2008	ROW	I-89	REHAB FROM EXIT 15 TO EXIT 17 (4.0 MILES) [4R]
ATT	ENFIELD - LEBANON	13962	2009	CON	I-89	REHAB FROM EXIT 15 TO EXIT 17 (4.0 MILES) [4R]
E-6	EPPING	13712	2007	PE	NH 125	RECONSTRUCTION FROM NH 27 NORTH TO NH 87
E-6	EPPING	13712	2008	PE	NH 125	RECONSTRUCTION FROM NH 27 NORTH TO NH 87
E-6	EPPING	13712	2008	ROW	NH 125	RECONSTRUCTION FROM NH 27 NORTH TO NH 87
E-6	EXETER		2007	PE	EPPING ROAD	IMPLEMENTATION OF ACCESS MANAGEMENT PLAN DEVELOPED BY EXETER TO LIKELY INCLUDE ROW ACQUISITIONS AND DRIVEWAY CONSOLIDATION
E-6	EXETER		2009	PE	EPPING ROAD	IMPLEMENTATION OF ACCESS MANAGEMENT PLAN DEVELOPED BY EXETER TO LIKELY INCLUDE ROW ACQUISITIONS AND DRIVEWAY CONSOLIDATION
N/E	EXETER	13871	2007	CON	LINCOLN STREET	EXPAND EXISTING PASSENGER RAILROAD STATION PARKING AREA (PROJECT #10025A) FROM 78 TO 140 PARKING SPACES [02-13CM]
E-19	EXETER	14090A	2008	PE	PARK STREET	BRIDGE REPLACEMENT OVER B&M RAILROAD - 088/076
E-19	EXETER	14090A	2008	ROW	PARK STREET	BRIDGE REPLACEMENT OVER B&M RAILROAD - 088/076
E-19	EXETER	14090A	2009	PE	PARK STREET	BRIDGE REPLACEMENT OVER B&M RAILROAD - 088/076
E-19	EXETER	14090A	2010	PE	PARK STREET	BRIDGE REPLACEMENT OVER B&M RAILROAD - 088/076
E-19	EXETER	14090A	2010	ROW	PARK STREET	BRIDGE REPLACEMENT OVER B&M RAILROAD - 088/076
ATT	FITZWILLIAM	13919	2009	PE	NH 12	RECONSTRUCT INTERSECTION @ NH 119 FOR SAFETY IMPROVEMENT
ATT	FITZWILLIAM	13919	2010	PE	NH 12	RECONSTRUCT INTERSECTION @ NH 119 FOR SAFETY IMPROVEMENT

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	FRANKLIN	13928A	2008	PE	US 3	UPGRADE AT INTERSECTION OF INDUSTRIAL PARK DRIVE IN FRANKLIN [Section 1702 - Designated Project; Demo Id NH037] [Sister Demo Id NH057]
ATT	FRANKLIN	13928A	2009	PE	US 3	UPGRADE AT INTERSECTION OF INDUSTRIAL PARK DRIVE IN FRANKLIN [Section 1702 - Designated Project; Demo Id NH037] [Sister Demo Id NH057]
ATT	FRANKLIN	13928A	2009	ROW	US 3	UPGRADE AT INTERSECTION OF INDUSTRIAL PARK DRIVE IN FRANKLIN [Section 1702 - Designated Project; Demo Id NH037] [Sister Demo Id NH057]
E-33	FRANKLIN - NORTHFIELD - TILTON	13890	2007	CON		WINNIPESAUKEE RIVER TRAIL PHASE 2: CONSTRUCT TRAIL FROM PARK STREET IN NORTHFIELD THROUGH TILTON AND CROSS OVER OF NH 140 IN TILTON AND THROUGH THE CORRIDOR TO THE BELMONT T/L [02-22TE]
N/E	FRANKLIN TO NORTHFIELD		2007	PE		NEW CONNECTOR ROAD FROM NH 3A IN FRANKLIN TO EXIT 19 IN NORTHFIELD (Feasibility Study)
N/E	FRANKLIN TO NORTHFIELD		2008	PE		NEW CONNECTOR ROAD FROM NH 3A IN FRANKLIN TO EXIT 19 IN NORTHFIELD (Feasibility Study)
N/E	FRANKLIN TO NORTHFIELD		2009	PE		NEW CONNECTOR ROAD FROM NH 3A IN FRANKLIN TO EXIT 19 IN NORTHFIELD (Feasibility Study)
N/E	FRANKLIN TO NORTHFIELD		2010	PE		NEW CONNECTOR ROAD FROM NH 3A IN FRANKLIN TO EXIT 19 IN NORTHFIELD (Feasibility Study)
E-45	GILFORD	06-16TE	2007	PE	ALVAH WILSON ROAD	VILLAGE SIDEWALK PHASE 4: CONSTRUCT SIDEWALK. THIS SIDEWALK WILL CONNECT ALL THE GILFORD SCHOOLS TO THE EXISTING VILLAGE SIDEWALKS. [06-16TE]
E-45	GILFORD	06-16TE	2008	ROW	ALVAH WILSON ROAD	VILLAGE SIDEWALK PHASE 4: CONSTRUCT SIDEWALK. THIS SIDEWALK WILL CONNECT ALL THE GILFORD SCHOOLS TO THE EXISTING VILLAGE SIDEWALKS. [06-16TE]
E-45	GILFORD	06-16TE	2010	CON	ALVAH WILSON ROAD	VILLAGE SIDEWALK PHASE 4: CONSTRUCT SIDEWALK. THIS SIDEWALK WILL CONNECT ALL THE GILFORD SCHOOLS TO THE EXISTING VILLAGE SIDEWALKS. [06-16TE]
ATT	GORHAM		2008	PE	US 2 / NH 16	INTERSECTION SAFETY IMPROVEMENTS (EASTERN INTERSECTION)
ATT	GORHAM		2009	PE	US 2 / NH 16	INTERSECTION SAFETY IMPROVEMENTS (EASTERN INTERSECTION)
ATT	GORHAM		2010	PE	NH 16	BRIDGE REPLACEMENT OVER PEABODY RIVER - 092/058
ATT	GORHAM	10438	2009	PE	NH 16	RECONSTRUCT FROM JUST NORTH OF MARTINS LOCATION NORTH 1.1 MILES
ATT	GORHAM	10438	2010	PE	NH 16	RECONSTRUCT FROM JUST NORTH OF MARTINS LOCATION NORTH 1.1 MILES
ATT	GORHAM	10438	2010	ROW	NH 16	RECONSTRUCT FROM JUST NORTH OF MARTINS LOCATION NORTH 1.1 MILES
ATT	GORHAM	14204A	2007	CON	US 2	INSTALL RWIS AT PATROL SHED IN DISTRICT 1 (JEFFERSON)
E-51	GREENLAND		2008	PE	NH 33	INTERSECTION IMPROVEMENTS @ OCEAN ROAD, ADDING ADDITIONAL TURNING AND THROUGH LANES
E-51	GREENLAND		2010	PE	NH 33	INTERSECTION IMPROVEMENTS @ OCEAN ROAD, ADDING ADDITIONAL TURNING AND THROUGH LANES
N/E	GREENLAND	06-08CM	2007	PE		TRUCKSTOP ELECTRIFICATION [06-08CM]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	GREENLAND	06-08CM	2008	ROW		TRUCKSTOP ELECTRIFICATION [06-08CM]
N/E	GREENLAND	06-08CM	2010	CON		TRUCKSTOP ELECTRIFICATION [06-08CM]
E-19	HAMPTON	13676B	2008	CON	NH 1A	REMOVAL OF LEAD PAINT & COMPLETE REPAINTING OF BASCULE SPAN OF HAMPTON RIVER BRIDGE - 235/025
E-33	HAMPTON	13891	2007	PE	HIGH ST / TOWLE AVE / WINNACUNNET RD	PHASE 3 OF NORTH HAMPTON, HAMPTON AND EXETER REGIONAL BIKE LOOP: CONSTRUCT 4' SHOULDERS AND PAVEMENT MARKINGS FROM US 1 ALONG HIGH STREET, TOWLE AVENUE, AND WINNACUNNET ROAD TO NH 1A [02-23TE]
E-33	HAMPTON	13891	2007	ROW	HIGH ST / TOWLE AVE / WINNACUNNET RD	PHASE 3 OF NORTH HAMPTON, HAMPTON AND EXETER REGIONAL BIKE LOOP: CONSTRUCT 4' SHOULDERS AND PAVEMENT MARKINGS FROM US 1 ALONG HIGH STREET, TOWLE AVENUE, AND WINNACUNNET ROAD TO NH 1A [02-23TE]
E-33	HAMPTON	13891	2008	CON	HIGH ST / TOWLE AVE / WINNACUNNET RD	PHASE 3 OF NORTH HAMPTON, HAMPTON AND EXETER REGIONAL BIKE LOOP: CONSTRUCT 4' SHOULDERS AND PAVEMENT MARKINGS FROM US 1 ALONG HIGH STREET, TOWLE AVENUE, AND WINNACUNNET ROAD TO NH 1A [02-23TE]
E-19	HAMPTON	14188	2008	ROW	NH 1A	BRIDGE REHABILITATION REPLACING DECK AND FENDER SYSTEM OVER HAMPTON RIVER - 235/025 [Section 1702 - Designated Project; Demo Id NH050] [Sister Demo Id NH067 & NH073]
E-19	HAMPTON	14188	2008	CON	NH 1A	BRIDGE REHABILITATION REPLACING DECK AND FENDER SYSTEM OVER HAMPTON RIVER - 235/025 [Section 1702 - Designated Project; Demo Id NH050] [Sister Demo Id NH067 & NH073]
E-34	HAMPTON FALLS - HAMPTON	13408B	2007	PE	I-95	REPLACEMENT OF THE TAYLOR RIVER BRIDGE ON THE BLUE STAR HIGHWAY AND REPLACEMENT OR REMOVAL OF THE TAYLOR RIVER DAM IN HAMPTON AT MILE 3.6501
E-34	HAMPTON FALLS - HAMPTON	13408B	2007	ROW	I-95	REPLACEMENT OF THE TAYLOR RIVER BRIDGE ON THE BLUE STAR HIGHWAY AND REPLACEMENT OR REMOVAL OF THE TAYLOR RIVER DAM IN HAMPTON AT MILE 3.6501
E-34	HAMPTON FALLS - HAMPTON	13408B	2008	PE	I-95	REPLACEMENT OF THE TAYLOR RIVER BRIDGE ON THE BLUE STAR HIGHWAY AND REPLACEMENT OR REMOVAL OF THE TAYLOR RIVER DAM IN HAMPTON AT MILE 3.6501
E-34	HAMPTON FALLS - HAMPTON	13408B	2009	PE	I-95	REPLACEMENT OF THE TAYLOR RIVER BRIDGE ON THE BLUE STAR HIGHWAY AND REPLACEMENT OR REMOVAL OF THE TAYLOR RIVER DAM IN HAMPTON AT MILE 3.6501
E-34	HAMPTON FALLS - HAMPTON	13408B	2009	ROW	I-95	REPLACEMENT OF THE TAYLOR RIVER BRIDGE ON THE BLUE STAR HIGHWAY AND REPLACEMENT OR REMOVAL OF THE TAYLOR RIVER DAM IN HAMPTON AT MILE 3.6501
E-34	HAMPTON FALLS - HAMPTON	13408B	2010	CON	I-95	REPLACEMENT OF THE TAYLOR RIVER BRIDGE ON THE BLUE STAR HIGHWAY AND REPLACEMENT OR REMOVAL OF THE TAYLOR RIVER DAM IN HAMPTON AT MILE 3.6501
ATT	HARTS LOCATION		2010	PE	US 302	REHABILITATE & UPGRADE FROM CARROLL/HARTS LOCATION T/L EASTERLY APPROX. 1.5 MILES
ATT	HAVERHILL	13907	2007	CON	FOREST STREET	CONSTRUCT 2800 LF OF SIDEWALK IN THE VILLAGE OF WOODSVILLE [02-64TE]
ATT	HAVERHILL - BATH	10436	2007	PE	US 302	RECONSTRUCTION FROM JUNCTION @ NH 10 NORTHERLY APPROXIMATELY 1.8 MILES
ATT	HAVERHILL - BATH	10436	2007	ROW	US 302	RECONSTRUCTION FROM JUNCTION @ NH 10 NORTHERLY APPROXIMATELY 1.8 MILES

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	HAVERHILL - BATH	10436	2008	PE	US 302	RECONSTRUCTION FROM JUNCTION @ NH 10 NORTHERLY APPROXIMATELY 1.8 MILES
ATT	HAVERHILL - BATH	10436	2008	ROW	US 302	RECONSTRUCTION FROM JUNCTION @ NH 10 NORTHERLY APPROXIMATELY 1.8 MILES
ATT	HAVERHILL - BATH	10436	2009	PE	US 302	RECONSTRUCTION FROM JUNCTION @ NH 10 NORTHERLY APPROXIMATELY 1.8 MILES
ATT	HAVERHILL - BATH	10436	2009	ROW	US 302	RECONSTRUCTION FROM JUNCTION @ NH 10 NORTHERLY APPROXIMATELY 1.8 MILES
ATT	HAVERHILL - BATH	10436	2010	ROW	US 302	RECONSTRUCTION FROM JUNCTION @ NH 10 NORTHERLY APPROXIMATELY 1.8 MILES
E-45	HILLSBOROUGH	13893	2007	CON	US 202 / NH 9	STONE ARCH BRIDGE ENHANCEMENT PROJECT: SW & SE CORNERS OF THE INTERSECTION OF NH 9 / US 202: CONSTRUCT VISITOR'S KIOSK & SMALL PARKING AREA (6 SPACES), NEW TOP SURFACE FOR BRIDGE, PED/BIKE TRAILS LINKING SITE TO SURROUNDING BUSINESSES, CAUSEWAY FROM STON
E-6	HINSDALE		2008	PE	NH 63	RECONSTRUCT TO IMPROVE SAFETY AND CONGESTION $\ensuremath{@}$ ASHUELOT RR OVERPASS CROSSING
E-6	HINSDALE		2009	PE	NH 63	RECONSTRUCT TO IMPROVE SAFETY AND CONGESTION @ ASHUELOT RR OVERPASS CROSSING
E-6	HINSDALE		2009	ROW	NH 63	RECONSTRUCT TO IMPROVE SAFETY AND CONGESTION $\ensuremath{@}$ ASHUELOT RR OVERPASS CROSSING
E-6	HINSDALE		2010	PE	NH 63	RECONSTRUCT TO IMPROVE SAFETY AND CONGESTION @ ASHUELOT RR OVERPASS CROSSING
E-46	HINSDALE	14540N	2007	PE	NH 63	BEGINNING APPROX 1300 FEET NORTH OF NH 119 AND CONTINUING NORTH APPROX 1000 FEET; RECONSTRUCT / REPAIR OCT 2005 FLOOD DAMAGE
E-46	HINSDALE	14540N	2007	ROW	NH 63	BEGINNING APPROX 1300 FEET NORTH OF NH 119 AND CONTINUING NORTH APPROX 1000 FEET; RECONSTRUCT / REPAIR OCT 2005 FLOOD DAMAGE
E-46	HINSDALE	14540N	2008	CON	NH 63	BEGINNING APPROX 1300 FEET NORTH OF NH 119 AND CONTINUING NORTH APPROX 1000 FEET; RECONSTRUCT / REPAIR OCT 2005 FLOOD DAMAGE
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2007	PE	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2007	ROW	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2008	PE	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2008	ROW	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2009	PE	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2009	ROW	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2010	PE	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]
E-19	HINSDALE, NH - BRATTLEBORO, VT	12210	2010	ROW	NH 119	REPLACE 2 BRIDGES OVER CONNECTICUT RIVER - 041/040 & 042/044, BY CONSTRUCTING A NEW BRIDGE 043/044 JUST DOWNSTREAM [Section 1602 - Designated Project; Demo Id NH018]
E-33	HOLLIS	13488	2007	CON	MAIN STREET, ASH STREET, BROAD STREET	CONSTRUCT SIDEWALK ON MAIN ST, ASH ST, & BROAD ST [00-40TE]
N/E	HOOKSETT	12537A	2007	PE	US 3 / NH 28	WIDEN NORTH OF BENTON ROAD SOUTH 0.411 MILES TO THE INTERSECTION WITH MARTIN'S FERRY ROAD [Section 117 - Designated Project; Demo Id NH031]
N/E	HOOKSETT	12537A	2007	ROW	US 3 / NH 28	WIDEN NORTH OF BENTON ROAD SOUTH 0.411 MILES TO THE INTERSECTION WITH MARTIN'S FERRY ROAD [Section 117 - Designated Project; Demo Id NH031]
N/E	HOOKSETT	12537A	2007	CON	US 3 / NH 28	WIDEN NORTH OF BENTON ROAD SOUTH 0.411 MILES TO THE INTERSECTION WITH MARTIN'S FERRY ROAD [NH031]
N/E	HOOKSETT	12537A	2008	PE	US 3 / NH 28	WIDEN NORTH OF BENTON ROAD SOUTH 0.411 MILES TO THE INTERSECTION WITH MARTIN'S FERRY ROAD [Section 117 - Designated Project; Demo Id NH031]
N/E	HOOKSETT	12537A	2008	ROW	US 3 / NH 28	WIDEN NORTH OF BENTON ROAD SOUTH 0.411 MILES TO THE INTERSECTION WITH MARTIN'S FERRY ROAD [Section 117 - Designated Project; Demo Id NH031]
N/E	HOOKSETT	12537A	2008	CON	US 3 / NH 28	WIDEN NORTH OF BENTON ROAD SOUTH 0.411 MILES TO THE INTERSECTION WITH MARTIN'S FERRY ROAD [Section 117 - Designated Project; Demo Id NH031]
N/E	HOOKSETT	14320	2007	CON	CONNECTOR ROAD	BUILD A CONNECTOR ROAD BETWEEN US 3 / NH 28 AND MERRIMACK STREET INCLUDING INTERSECTION IMPROVEMENTS
E-33	HOPKINTON	13483A	2007	CON	NH 103 & NH 127	RESTORE COVERED RR BRIDGE NEAR THE INTERSECTION FOR WALK THROUGH MUSEUM IN THE VILLAGE OF CONTOOCOOK [Part of 00-17TE]
E-34	HOPKINTON - HENNIKER	14559	2007	PE	US 202 / NH 9	TO EVALUATE SAFETY ISSUES WITH THE CORRIDOR AND MAKE RECOMMENDATION FROM I-89 INTERCHANGE TO NH 114
E-34	HOPKINTON - HENNIKER	14559	2007	ROW	US 202 / NH 9	TO EVALUATE SAFETY ISSUES WITH THE CORRIDOR AND MAKE RECOMMENDATION FROM I-89 INTERCHANGE TO NH 114
N/E	HUDSON	06-10CM	2007	PE		TRAFFIC SIGNAL COORDINATION SYSTEM PHASE II [06-10CM]
N/E	HUDSON	06-10CM	2008	ROW		TRAFFIC SIGNAL COORDINATION SYSTEM PHASE II [06-10CM]
N/E	HUDSON	06-10CM	2010	CON		TRAFFIC SIGNAL COORDINATION SYSTEM PHASE II [06-10CM]
N/E	HUDSON	10625O	2016	CON	CIRCUMFERENTIAL HWY	CONSTRUCTION OF MITIGATION SITE AT BENSON'S - PHASE 1
N/E	HUDSON	10625Q	2016	CON	CIRCUMFERENTIAL HWY	CONSTRUCT BRIDGES (5), OLD DERRY ROAD, BARRETT'S HILL ROAD, GLOVER BROOK - PHASE 3
N/E	HUDSON	10625R	2016	CON	CIRCUMFERENTIAL HWY	CONSTRUCT MAINLINE & RAMPS, NH 102 TO NH 111, & ROADWAY @ NH 111 - PHASE 3
N/E	HUDSON	10625S	2008	CON	CIRCUMFERENTIAL HWY	CLEAN UP AND CLOSURE OF MITIGATION SITE AT BENSON'S
E-33	HUDSON	13100	2007	CON	NH 3A	CONSTRUCT SIDEWALKS FROM BIRCH STREET TO CENTRAL STREET [98-23TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-33	HUDSON	13894	2007	CON	NH 102	CONSTRUCT 4,000 LF OF 5' WIDE BITUMINOUS SIDEWALK ON ONE SIDE & CONSTRUCT 4,000 LF OF 4' WIDE BITUMINOUS & BICYCLE LANE ON ONE SIDE: LOCATED ON THE EAST SIDE OF NH 102 BETWEEN EVERGREEN DRIVE AND MEGAN DRIVE [02-27TE]
E-28	HUDSON	14408	2007	CON	TRAIN DEPOT	HUDSON CENTER TRAIN STOP DEPOT - RELOCATION AND RESTORATION OF FORMER HUDSON CENTER TRAIN DEPOT, WORCESTER, NASHUA, & PORTLAND RAILROAD BUILT IN 1873 [04-25TE]
ATT	JEFFERSON - RANDOLPH	13602	2008	PE	US 2	RECONSTRUCTION, SAFETY IMPROVEMENTS, & SHOULDER WIDENING FROM NH 115 INTERSECTION EAST APPROXIMATELY 5.0 MILES TO DURAND ROAD (PE & ROW ONLY)
ATT	JEFFERSON - RANDOLPH	13602	2008	ROW	US 2	RECONSTRUCTION, SAFETY IMPROVEMENTS, & SHOULDER WIDENING FROM NH 115 INTERSECTION EAST APPROXIMATELY 5.0 MILES TO DURAND ROAD (PE & ROW ONLY)
ATT	JEFFERSON - RANDOLPH	13602A	2008	CON	US 2	RECONSTRUCTION, SAFETY IMPROVEMENTS, & SHOULDER WIDENING FROM JEFFERSON-RANDOLPH T/L EAST APPROX. 2.7 MILES TO DURAND ROAD (Construction Only)
ATT	JEFFERSON - RANDOLPH	13602B	2010	CON	US 2	RECONSTRUCTION, SAFETY IMPROVEMENTS & SHOULDER WIDENING FROM NH 115 INTERSECTION EAST APPROX. 2.3 MILES TO JEFFERSON / RANDOLPH T/L (Construction only)
E-45	KEENE	06-20TE	2007	PE	CHESHIRE RAIL TRAIL	IMPROVE EXISTING TRAIL SURFACE AND REPAIR DRAINAGE FROM PITCHER STREET TO BRADFORD ROAD AND FROM BRADFORD ROAD TO WHITCOMB'S MILL ROAD. ADD A TRAILHEAD AT WHITCOMB'S MILL ROAD. [06-20TE]
E-45	KEENE	06-20TE	2008	PE	CHESHIRE RAIL TRAIL	IMPROVE EXISTING TRAIL SURFACE AND REPAIR DRAINAGE FROM PITCHER STREET TO BRADFORD ROAD AND FROM BRADFORD ROAD TO WHITCOMB'S MILL ROAD. ADD A TRAILHEAD AT WHITCOMB'S MILL ROAD. [06-20TE]
E-45	KEENE	06-20TE	2008	ROW	CHESHIRE RAIL TRAIL	IMPROVE EXISTING TRAIL SURFACE AND REPAIR DRAINAGE FROM PITCHER STREET TO BRADFORD ROAD AND FROM BRADFORD ROAD TO WHITCOMB'S MILL ROAD. ADD A TRAILHEAD AT WHITCOMB'S MILL ROAD. [06-20TE]
E-45	KEENE	06-20TE	2010	CON	CHESHIRE RAIL TRAIL	IMPROVE EXISTING TRAIL SURFACE AND REPAIR DRAINAGE FROM PITCHER STREET TO BRADFORD ROAD AND FROM BRADFORD ROAD TO WHITCOMB'S MILL ROAD. ADD A TRAILHEAD AT WHITCOMB'S MILL ROAD. [06-20TE]
E-33	KEENE	13101A	2007	ROW	PEDESTRIAN / BIKE PATH	CONSTRUCT BIKE/PED TRAIL FROM ISLAND STREET TO TRAIL CONNECTING WINCHESTER ST TO GILBO AVE [Part of 98-66TE]
E-33	KEENE	13101A	2007	CON	PEDESTRIAN / BIKE PATH	CONSTRUCT BIKE/PED TRAIL FROM ISLAND STREET TO TRAIL CONNECTING WINCHESTER ST TO GILBO AVE [Part of 98-66TE]
E-10	KEENE	13251	2009	PE	NH 101	RECONSTRUCT FROM 0.9 MILES WEST OF BRANCH ROAD (END OF KEENE-SWANZEY BYPASS PROJ.) TO THE MARLBOROUGH T/L - APPROX 2.0 MILES
E-10	KEENE	13251	2009	ROW	NH 101	RECONSTRUCT FROM 0.9 MILES WEST OF BRANCH ROAD (END OF KEENE-SWANZEY BYPASS PROJ.) TO THE MARLBOROUGH T/L - APPROX 2.0 MILES
E-10	KEENE	13251	2010	PE	NH 101	RECONSTRUCT FROM 0.9 MILES WEST OF BRANCH ROAD (END OF KEENE-SWANZEY BYPASS PROJ.) TO THE MARLBOROUGH T/L - APPROX 2.0 MILES
E-10	KEENE	13251	2010	ROW	NH 101	RECONSTRUCT FROM 0.9 MILES WEST OF BRANCH ROAD (END OF KEENE-SWANZEY BYPASS PROJ.) TO THE MARLBOROUGH T/L - APPROX 2.0 MILES

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	KEENE - MILFORD	13856A	2007	CON	NH 101	RWIS INSTALL; TEMPLE MOUNTAIN, DISTRICT 4 PATROL SHED
N/E	KEENE - SWANZEY	10309	2007	PE	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW]
N/E	KEENE - SWANZEY	10309	2007	PE	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309	2007	ROW	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW]
N/E	KEENE - SWANZEY	10309	2007	ROW	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309	2008	PE	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW]
N/E	KEENE - SWANZEY	10309	2008	PE	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309	2008	ROW	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW]
N/E	KEENE - SWANZEY	10309	2008	ROW	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309	2009	PE	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW]
N/E	KEENE - SWANZEY	10309	2009	PE	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309	2009	ROW	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW]
N/E	KEENE - SWANZEY	10309	2009	ROW	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309	2010	PE	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309	2010	ROW	NH 101	UPGRADE OF NH 9/10/12 & 101 [PE&ROW] [Section 1602 - Designated Project; Demo Id NH017]
N/E	KEENE - SWANZEY	10309B	2013	CON	NH 10/101 (WINCHESTER ST)	RECONSTRUCTION FROM MATHEWS ROAD NORTH TO PEARL STREET. / ISLAND STREET INCLUDING INTERSECTION AT KEY ROAD
N/E	KEENE - SWANZEY	10309C	2015	CON	NH 12	NEW CONSTRUCTION FROM NH 32 NORTHERLY TO NH 101/OPTICAL AVENUE INTERSECTION - APPROX. 0.5 MILES
N/E	KEENE - SWANZEY	10309D	2014	CON	NH 10/12/101	CONSTRUCT INTERCHANGE AND EAST BOUND & WEST BOUND RAMPS @ WINCHESTER STREET INTERSECTION
N/E	KEENE - SWANZEY	10309E	2016	CON	NH 101	RECONSTRUCT INTERSECTION @ NH 12 (MAIN STREET)
N/E	KEENE - SWANZEY	10309F	2016	CON	NH 9/10/12/101	RECONSTRUCTION "SPDI" MAINLINE & TRUMPHET INTERCHANGE
N/E	KEENE - SWANZEY	10309G	2014	CON	NH 9/10/12	RECONSTRUCT INTERCHANGE @ WEST STREET
N/E	KEENE - SWANZEY	10309Ј	2009	CON	NH 9 / NH 10 / NH 12 / NH 101	INTERIM INTERSECTION IMPROVEMENTS AT 'T' INTERSECTION AND CONSTRUCTION OF FLOODPLAIN & WETLAND MITIGATION [Section 1702 - Designated Project; Demo Id NH049]
N/E	KEENE - SWANZEY	10309J	2009	CON	NH 9 / NH 101	INTERIM INTERSECTION IMPROVEMENTS @ 'T' INTERSECTION & CONSTRUCTION OF MULTI-USE TRAIL OVER NH 12/101
N/E	KEENE - SWANZEY	10309K	2010	CON	NH 12/101	INTERIM INTERSECTION IMPROVEMENTS @ MAIN STREET
N/E	KEENE - SWANZEY	10309K	2010	CON	NH 12/101	INTERIM INTERSECTION IMPROVEMENTS @ MAIN STREET
N/E	KEENE - SWANZEY	10309L	2010	CON	NH 12 / 101	CONSTRUCTION OF INTERIM WIDENING WITH REPLACEMENT OF THE ASHUELOT RIVER BRIDGE

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	KEENE - SWANZEY	10309P	2009	CON	NH 9/10/12/101	CONSTRUCTION OF MULTI-USE TRAIL BRIDGE OVER NH 12/101
E-45	LACONIA	06-22TE	2008	PE		PHASE 2, WINNIPESAUKEE OPECHEE WINNISQUAM (WOW) TRIAL: CONSTRUCT 1.0 MILES OF SHARED USE PATH IN THE RAILROAD CORRIDOR FROM MAIN STREET IN DOWNTOWN LACONIA TO THE BELMONT TOWN LINE. [06-22TE]
E-45	LACONIA	06-22TE	2009	PE		PHASE 2, WINNIPESAUKEE OPECHEE WINNISQUAM (WOW) TRIAL: CONSTRUCT 1.0 MILES OF SHARED USE PATH IN THE RAILROAD CORRIDOR FROM MAIN STREET IN DOWNTOWN LACONIA TO THE BELMONT TOWN LINE. [06-22TE]
E-45	LACONIA	06-22TE	2009	ROW		PHASE 2, WINNIPESAUKEE OPECHEE WINNISQUAM (WOW) TRIAL: CONSTRUCT 1.0 MILES OF SHARED USE PATH IN THE RAILROAD CORRIDOR FROM MAIN STREET IN DOWNTOWN LACONIA TO THE BELMONT TOWN LINE. [06-22TE]
ATT	LACONIA	13895	2007	CON	US 3 / NH 11B	LACONIA / WEIRS BEACH SIDEWALKS, CHAPTER LAW 223:11: CONSTRUCT 5' WIDE SIDEWALK ALONG US 3 FROM LAKE SIDE AVENUE TO TOWER ST & ALONG NH 11B [02-31TE]
ATT	LACONIA	14409	2008	CON		LACONIA - OPECHEE - WINNISQUAM (WOW) TRAIL PHASE 1 - CONSTRUCT 7040' (Segments 7-10) SHARED USE PATH FOR BICYCLES & PEDESTRIANS IN RAILROAD CORRIDOR FROM MAIN ST (Laconia) TO ELM ST (Lakeport) (Phase I: Laconia - Opechee - Winnisquam, Part of Winnipesauk
ATT	LACONIA - MEREDITH		2008	PE	US 3	REHABILITATE & ADD SHOULDERS FROM NH 104 SOUTHERLY 3.7 MILES TO WEIRS BEACH
ATT	LACONIA - MEREDITH		2008	ROW	US 3	REHABILITATE & ADD SHOULDERS FROM NH 104 SOUTHERLY 3.7 MILES TO WEIRS BEACH
ATT	LACONIA - MEREDITH		2010	PE	US 3	REHABILITATE & ADD SHOULDERS FROM NH 104 SOUTHERLY 3.7 MILES TO WEIRS BEACH
E-45	LANCASTER	06-24TE	2007	PE	US 2 AND MECHANIC STREET	RECONSTRUCT 300 LF OF SIDEWALK ON US 2 / US 3 AND 900 LF ON MECHANIC STREET INCLUDING INSTALLATION OF 11 DRIVEWAY TIP-DOWNS. WIDEN TO 5' AND OVERLAY 460 LF OF ASPHALT SIDEWALK NEAR SOLDIER'S PARK. [06-24TE]
E-45	LANCASTER	06-24TE	2008	PE	US 2 AND MECHANIC STREET	RECONSTRUCT 300 LF OF SIDEWALK ON US 2 / US 3 AND 900 LF ON MECHANIC STREET INCLUDING INSTALLATION OF 11 DRIVEWAY TIP-DOWNS. WIDEN TO 5' AND OVERLAY 460 LF OF ASPHALT SIDEWALK NEAR SOLDIER'S PARK. [06-24TE]
E-45	LANCASTER	06-24TE	2009	ROW	US 2 AND MECHANIC STREET	RECONSTRUCT 300 LF OF SIDEWALK ON US 2 / US 3 AND 900 LF ON MECHANIC STREET INCLUDING INSTALLATION OF 11 DRIVEWAY TIP-DOWNS. WIDEN TO 5' AND OVERLAY 460 LF OF ASPHALT SIDEWALK NEAR SOLDIER'S PARK. [06-24TE]
E-45	LANCASTER	06-24TE	2010	CON	US 2 AND MECHANIC STREET	RECONSTRUCT 300 LF OF SIDEWALK ON US 2 / US 3 AND 900 LF ON MECHANIC STREET INCLUDING INSTALLATION OF 11 DRIVEWAY TIP-DOWNS. WIDEN TO 5' AND OVERLAY 460 LF OF ASPHALT SIDEWALK NEAR SOLDIER'S PARK. [06-24TE]
ATT	LEBANON		2008	PE	I-89	1" OVERLAY FROM EXIT 17 TO JUST SOUTH OF EXIT 20 (5.5 MILES) INCLUDES SLIP LINING TWIN 66" PIPES NORTH OF EXIT 17 AND BRIDGE JOINT REHAB [4R]; BRIDGES 158/114 & 156/117
ATT	LEBANON		2009	PE	I-89	1" OVERLAY FROM EXIT 17 TO JUST SOUTH OF EXIT 20 (5.5 MILES) INCLUDES SLIP LINING TWIN 66" PIPES NORTH OF EXIT 17 AND BRIDGE JOINT REHAB [4R]; BRIDGES 158/114 & 156/117
ATT	LEBANON		2010	PE	I-89	1" OVERLAY FROM EXIT 17 TO JUST SOUTH OF EXIT 20 (5.5 MILES) INCLUDES SLIP LINING TWIN 66" PIPES NORTH OF EXIT 17 AND BRIDGE JOINT REHAB [4R]; BRIDGES 158/114 & 156/117

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	LEBANON	10034A	2007	ROW	US 4 (MECHANIC STREET)	RECONSTRUCTION FROM HIGH STREET TO I-89 RAMPS INCLUDING REMOVAL OF CONCRETE UNDERBASE, INSTALLATION OF SIDEWALKS, AND UPGRADE OF STORM DRAINAGE SYSTEM
ATT	LEBANON	10034A	2008	PE	US 4 (MECHANIC STREET)	RECONSTRUCTION FROM HIGH STREET TO I-89 RAMPS INCLUDING REMOVAL OF CONCRETE UNDERBASE, INSTALLATION OF SIDEWALKS, AND UPGRADE OF STORM DRAINAGE SYSTEM
ATT	LEBANON	10034A	2009	PE	US 4 (MECHANIC STREET)	RECONSTRUCTION FROM HIGH STREET TO I-89 RAMPS INCLUDING REMOVAL OF CONCRETE UNDERBASE, INSTALLATION OF SIDEWALKS, AND UPGRADE OF STORM DRAINAGE SYSTEM
ATT	LEBANON	10034A	2010	PE	US 4 (MECHANIC STREET)	RECONSTRUCTION FROM HIGH STREET TO I-89 RAMPS INCLUDING REMOVAL OF CONCRETE UNDERBASE, INSTALLATION OF SIDEWALKS, AND UPGRADE OF STORM DRAINAGE SYSTEM
ATT	LEBANON	10034A	2010	ROW	US 4 (MECHANIC STREET)	RECONSTRUCTION FROM HIGH STREET TO I-89 RAMPS INCLUDING REMOVAL OF CONCRETE UNDERBASE, INSTALLATION OF SIDEWALKS, AND UPGRADE OF STORM DRAINAGE SYSTEM
ATT	LEBANON	11700	2007	PE	I-89	RECONSTRUCTION OF THE INTERCHANGE & BRIDGES @ EXIT 20, INCLUDING APPROACHES ON NH 12A
ATT	LEBANON	11700	2007	ROW	I-89	RECONSTRUCTION OF THE INTERCHANGE & BRIDGES @ EXIT 20, INCLUDING APPROACHES ON NH 12A
ATT	LEBANON	11700	2008	PE	I-89	RECONSTRUCTION OF THE INTERCHANGE & BRIDGES @ EXIT 20, INCLUDING APPROACHES ON NH 12A
ATT	LEBANON	11700	2009	CON	I-89	RECONSTRUCTION OF THE INTERCHANGE & BRIDGES @ EXIT 20, INCLUDING APPROACHES ON NH 12A
ATT	LEBANON	13491	2007	CON	US 4	BIKE & PEDESTRIAN IMPROVEMENTS ALONG US 4 NEAR I-89, EXIT 19 [00-52TE]
ATT	LEBANON	13558A	2007	PE	NH 12A	BRIDGE REPLACEMENT OVER B&M RAILROAD - 062/117
ATT	LEBANON	13558A	2007	ROW	NH 12A	BRIDGE REPLACEMENT OVER B&M RAILROAD - 062/117
ATT	LEBANON	13558A	2008	PE	NH 12A	BRIDGE REPLACEMENT OVER B&M RAILROAD - 062/117
ATT	LEBANON	13558A	2008	ROW	NH 12A	BRIDGE REPLACEMENT OVER B&M RAILROAD - 062/117
ATT	LEBANON	13951	2008	PE	US 4	BRIDGE REPLACEMENT OVER MASCOMA RIVER & NHRR - 188/126 NEAR INTERSECTION OF US 4 AND NH 4A
ATT	LEBANON	13951	2008	ROW	US 4	BRIDGE REPLACEMENT OVER MASCOMA RIVER & NHRR - 188/126 NEAR INTERSECTION OF US 4 AND NH 4A
ATT	LEBANON	13951	2009	PE	US 4	BRIDGE REPLACEMENT OVER MASCOMA RIVER & NHRR - 188/126 NEAR INTERSECTION OF US 4 AND NH 4A
ATT	LEBANON	14194	2007	PE	US 4	BRIDGE REHABILITATION OVER B&M RAILROAD / MASCOMA RIVER - 077/107
ATT	LEBANON	14194	2007	ROW	US 4	BRIDGE REHABILITATION OVER B&M RAILROAD / MASCOMA RIVER - 077/107
ATT	LEBANON	14194	2010	CON	US 4	BRIDGE REHABILITATION OVER B&M RAILROAD / MASCOMA RIVER - 077/107
ATT	LINCOLN		2009	PE	I-93	RECLAIM AND OVERLAY FROM EXIT 32 TO EXIT 33 (2 MILES) [4R]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	LINCOLN		2010	PE	I-93	COLD PLANE & OVERLAY WITH FABRIC & 2" PAVEMENT FROM US 3 BRIDGE TO WHITEHOUSE BRIDGE (6 MILES) [4R]
ATT	LINCOLN		2010	PE	I-93	RECLAIM AND OVERLAY FROM EXIT 32 TO EXIT 33 (2 MILES) [4R]
ATT	LISBON		2008	PE	US 302	REHABILITATE, BEGINNING 1100 FT NORTH OF PERCH POND ROAD NORTHERLY 4 MILES
ATT	LISBON		2009	PE	US 302	REHABILITATE, BEGINNING 1100 FT NORTH OF PERCH POND ROAD NORTHERLY 4 MILES
ATT	LISBON		2009	ROW	US 302	REHABILITATE, BEGINNING 1100 FT NORTH OF PERCH POND ROAD NORTHERLY 4 MILES
ATT	LISBON	14464	2007	PE	US 302	BRIDGE REHABILITATION OVER AMMONOOSUC RIVER - 094/114
ATT	LISBON	14464	2007	ROW	US 302	BRIDGE REHABILITATION OVER AMMONOOSUC RIVER - 094/114
ATT	LISBON	14464	2010	CON	US 302	BRIDGE REHABILITATION OVER AMMONOOSUC RIVER - 094/114
DNA	LITCHFIELD		2010	PE	ALBUQUERQUE AVE	NEW CONSTRUCTION OF ALBUQUERQUE AVENUE WITH LIMITS TO BE DETERMINED IN COORDINATION WITH THE TOWN IN THE FUTURE
N/E	LITCHFIELD		2010	ROW	ALBUQUERQUE AVE	CONSTRUCT .3 MILE SEGMENT FROM APRIL DRIVE TO NH 3A, INCLUDING INTERSECTION IMPROVEMENTS @ NH 3A
N/E	LITCHFIELD		2011	CON	ALBUQUERQUE AVE	CONSTRUCT .3 MILE SEGMENT FROM APRIL DRIVE TO NH 3A, INCLUDING INTERSECTION IMPROVEMENTS @ NH 3A
E-45	LITCHFIELD	06-26TE	2007	PE	ALBUQUERQUE AVENUE	ALBUQUERQUE AVENUE TRAIL COMPLETION: CONSTRUCT 0.85 MILES AND 0.95 MILES OF PEDESTRIAN BIKEWAY ADJACENT TO ALBUQUERQUE AVENUE. [06-26TE]
E-45	LITCHFIELD	06-26TE	2008	PE	ALBUQUERQUE AVENUE	ALBUQUERQUE AVENUE TRAIL COMPLETION: CONSTRUCT 0.85 MILES AND 0.95 MILES OF PEDESTRIAN BIKEWAY ADJACENT TO ALBUQUERQUE AVENUE. [06-26TE]
E-45	LITCHFIELD	06-26TE	2009	ROW	ALBUQUERQUE AVENUE	ALBUQUERQUE AVENUE TRAIL COMPLETION: CONSTRUCT 0.85 MILES AND 0.95 MILES OF PEDESTRIAN BIKEWAY ADJACENT TO ALBUQUERQUE AVENUE. [06-26TE]
N/E	LITCHFIELD	10625T	2014	CON	NH 3A (Circumferential Hwy)	CONSTRUCT INDUSTRIAL DRIVE, OFF NH 3A
N/E	LITCHFIELD - HUDSON	10625K	2014	CON	CIRCUMFERENTIAL HWY	CONSTRUCT MAINLINE, RAMPS, TOLL BOOTH, NH 3A IMPROVEMENTS, BOAT RAMP ACCESS ROAD - PHASE 1
N/E	LITCHFIELD - HUDSON	10625P	2014	CON	CIRCUMFERENTIAL HWY	CONSTRUCT MAINLINE & RAMPS FROM NH 3A TO NH 102 - PHASE 2
N/E	LITCHFIELD - NASHUA	10625H	2014	CON	CIRCUMFERENTIAL HWY	CONSTRUCT NORTHERN RIVER CROSSING OVER MERRIMACK RIVER (2 BRIDGES) - PHASE 1
ATT	LITTLETON	13861	2008	CON	MAIN STREET	PEDESTRIAN IMPROVEMENTS AND IMPLEMENTATION OF PROJECTS AND RECOMMENDATIONS DEVELOPED THROUGH LITTLETON - PHASE I, TCSP PROJECT TO INCLUDE ROADWAY RECONSTRUCTION
ATT	LITTLETON	13897	2008	CON	RIVERFRONT PATHWAY & TRANSPORTATION MUSEUM	PHASE II: CONSTRUCT 200' PATH FROM END OF PHASE I TO SOLOMON BLOCK. CONSTRUCT 100' CANTILEVERED STRUCTURE FROM PATH TO COTTAGE ST BRIDGE. CONSTRUCT 65' STRUCTURE UNDER COTTAGE ST FROM EAST SIDE OF COTTAGE ST BRIDGE, CONSTRUCT PATH TO CONNECT WITH OPERA
ATT	LITTLETON	14307	2008	PE	REDINGTON STREET	BRIDGE REPLACEMENT OVER AMMONOOSUC RIVER - 232/050

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	LITTLETON	14307	2009	PE	REDINGTON STREET	BRIDGE REPLACEMENT OVER AMMONOOSUC RIVER - 232/050
ATT	LITTLETON	14307	2009	ROW	REDINGTON STREET	BRIDGE REPLACEMENT OVER AMMONOOSUC RIVER - 232/050
ATT	LITTLETON	14307	2009	CON	REDINGTON STREET	BRIDGE REPLACEMENT OVER AMMONOOSUC RIVER - 232/050
N/E	LONDONDERRY		2009	PE	NH 28 & NH 128	INTERSECTION IMPROVEMENTS, FOR SAFETY AND TRAFFIC FLOW
N/E	LONDONDERRY		2012	ROW	NH 28 & NH 128	INTERSECTION IMPROVEMENTS, FOR SAFETY AND TRAFFIC FLOW
N/E	LONDONDERRY		2015	CON	NH 28 & NH 128	INTERSECTION IMPROVEMENTS, FOR SAFETY AND TRAFFIC FLOW
N/E	LONDONDERRY	13872	2007	CON	VARIOUS	CONSTRUCT APPROX. 6200' OF MULTIPURPOSE PATH & SIDEWALK: BEGINNING @ PILLSBURY & WILSHIRE RDS TO MAMMOTH RD & CONTINUE AS AN INDEPENDENT MULTI-USE PATH [02-16CM]
E-21	LONDONDERRY - SALEM		2007	UNK	TRANSIT	COMMUTER BUS PREVENTATIVE MAINTENANCE
E-21	LONDONDERRY - SALEM		2008	UNK	TRANSIT	COMMUTER BUS PREVENTATIVE MAINTENANCE
E-21	LONDONDERRY - SALEM		2009	UNK	TRANSIT	COMMUTER BUS PREVENTATIVE MAINTENANCE
E-21	LONDONDERRY - SALEM		2010	UNK	TRANSIT	COMMUTER BUS PREVENTATIVE MAINTENANCE
E-33	MADBURY	14410	2007	PE		CENTER/CIVIC DISTRICT MULTI-USE PATHS - CONSTRUCT BIKE/PED PATHS TO TOWN SQUARE, TOWN CENTER/CIVIC DISTRICT BOUNDED ON SOUTH BY NH155 & NORTH BY TOWN HALL RD. ELEMENTARY SCHOOL LINKED WITH TOWN LIBRARY, ATHLETIC FIELDS, TOWN HALL. [04-31TE]
E-33	MADBURY	14410	2008	CON		CENTER/CIVIC DISTRICT MULTI-USE PATHS - CONSTRUCT BIKE/PED PATHS TO TOWN SQUARE, TOWN CENTER/CIVIC DISTRICT BOUNDED ON SOUTH BY NH155 & NORTH BY TOWN HALL RD. ELEMENTARY SCHOOL LINKED WITH TOWN LIBRARY, ATHLETIC FIELDS, TOWN HALL. [04-31TE]
ATT	MADISON - CONWAY	11339J	2008	CON	NH 16	CONWAY BYPASS SOUTHERN SEGMENT, EARTHWORK PROJECT
ATT	MADISON - CONWAY	11339J	2010	CON	NH 16	CONWAY BYPASS SOUTHERN SEGMENT, EARTHWORK PROJECT
E-19	MANCHESTER		2007	PE	I-293 / FEE TPK	ROADWAY RECONSTRUCTION AND BRIDGE REHABILITATION BETWEEN NH 101 AND GRANITE STREET: 144/066, 146/064, 146/065, 149/063, 153/061
E-30	MANCHESTER		2007	UNK	TRANSIT AUTHORITY	REPLACEMENT BUSES
E-21	MANCHESTER		2007	UNK	TRANSIT AUTHORITY	OPERATING ASSISTANCE FOR ADA PARATRANSIT SERVICE
E-30	MANCHESTER		2007	UNK	TRANSIT AUTHORITY	REPLACEMENT OF ADA PARATRANSIT VANS
E-19	MANCHESTER		2008	PE	I-293 / FEE TPK	ROADWAY RECONSTRUCTION AND BRIDGE REHABILITATION BETWEEN NH 101 AND GRANITE STREET: 144/066, 146/064, 146/065, 149/063, 153/061
E-30	MANCHESTER		2008	UNK	TRANSIT AUTHORITY	REPLACEMENT BUSES
E-21	MANCHESTER		2008	UNK	TRANSIT AUTHORITY	OPERATING ASSISTANCE FOR ADA PARATRANSIT SERVICE

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-21	MANCHESTER		2008	UNK	TRANSIT AUTHORITY	TRANSIT FACILITY IMPROVEMENT / SHOP EQUIPMENT REPLACEMENT
E-19	MANCHESTER		2009	PE	I-293 / FEE TPK	ROADWAY RECONSTRUCTION AND BRIDGE REHABILITATION BETWEEN NH 101 AND GRANITE STREET: 144/066, 146/064, 146/065, 149/063, 153/061
E-21	MANCHESTER		2009	UNK	TRANSIT AUTHORITY	OPERATING ASSISTANCE FOR ADA PARATRANSIT SERVICE
E-30	MANCHESTER		2009	UNK	TRANSIT AUTHORITY	REPLACEMENT OF TRANSIT SERVICE VEHICLES
E-21	MANCHESTER		2009	UNK	TRANSIT AUTHORITY	TRANSIT OFFICE EQUIPMENT / MIS HARDWARE / SOFTWARE
N/E	MANCHESTER		2010	PE	FEE TPK	RECONSTRUCT INTERCHANGE AT EXIT 7 TO BECOME FULL INTERCHANGE
E-19	MANCHESTER		2010	PE	I-293 / FEE TPK	ROADWAY RECONSTRUCTION AND BRIDGE REHABILITATION BETWEEN NH 101 AND GRANITE STREET: 144/066, 146/064, 146/065, 149/063, 153/061
E-30	MANCHESTER		2010	UNK	TRANSIT AUTHORITY	REPLACEMENT BUSES
E-21	MANCHESTER		2010	UNK	TRANSIT AUTHORITY	OPERATING ASSISTANCE FOR ADA PARATRANSIT SERVICE
E-30	MANCHESTER		2010	UNK	TRANSIT AUTHORITY	REPLACEMENT OF ADA PARATRANSIT VANS
E-21	MANCHESTER		2010	UNK	TRANSIT AUTHORITY	TRANSIT FACILITY IMPROVEMENT / SHOP EQUIPMENT REPLACEMENT
N/E	MANCHESTER		2011	PE	FEE TPK	RECONSTRUCT INTERCHANGE AT EXIT 7 TO BECOME FULL INTERCHANGE
N/E	MANCHESTER		2011	ROW	FEE TPK	RECONSTRUCT INTERCHANGE AT EXIT 7 TO BECOME FULL INTERCHANGE
N/E	MANCHESTER		2016	CON	FEE TPK	RECONSTRUCT INTERCHANGE AT EXIT 7 TO BECOME FULL INTERCHANGE
N/E	MANCHESTER	06-12CM	2009	CON		INCREASED TRANSIT SERVICE [06-12CM]
E-33	MANCHESTER	13493	2007	CON		REFURBISH UTILITY BRIDGE FOR TRAILWAY CONNECTION [00-59TE]
N/E	MANCHESTER	13512	2010	PE		CONSTRUCT 600 SPACE PARK'N RIDE STRUCTURE [00-13CM]
N/E	MANCHESTER	13512	2011	PE		CONSTRUCT 600 SPACE PARK'N RIDE STRUCTURE [00-13CM]
N/E	MANCHESTER	13512	2012	ROW		CONSTRUCT 600 SPACE PARK'N RIDE STRUCTURE [00-13CM]
N/E	MANCHESTER	13512	2016	CON		CONSTRUCT 600 SPACE PARK'N RIDE STRUCTURE [00-13CM]
E-19	MANCHESTER	14170	2007	ROW	ISLAND POND ROAD	BRIDGE REPLACEMENT OVER I-93 - 166/124 & 166/125 AND SOUND WALL
E-33	MANCHESTER	14411	2008	PE	ROCKINGHAM RECREATIONAL TRAIL	IMPROVEMENTS TO DEVELOP FORMER MANCHESTER & PORTSMOUTH BRANCH RAILROAD FOR BICYCLES & PEDESTRIAN ACCESS FROM TARRYTOWN RD SOUTH TO LAKE MASSABESIC. ALSO INCLUDES CONSTRUCTION OF A PEDESTRIAN CULVERT AT PEABODY AVE. [04-32TE]
E-33	MANCHESTER	14411	2009	CON	ROCKINGHAM RECREATIONAL TRAIL	IMPROVEMENTS TO DEVELOP FORMER MANCHESTER & PORTSMOUTH BRANCH RAILROAD FOR BICYCLES & PEDESTRIAN ACCESS FROM TARRYTOWN RD SOUTH TO LAKE MASSABESIC. ALSO INCLUDES CONSTRUCTION OF A PEDESTRIAN CULVERT AT PEABODY AVE. [04-32TE]
E-33	MANCHESTER	14412	2007	PE	PHASE III - RAILROAD	PISCATAQUOG TRAILWAY PHASE III - IMPROVE RAIL CORRIDOR FROM BIRON BRIDGE TO THE CITY/TOWN LINE WITH GOFFSTOWN. REHABILITATE WOOD TRESTLE BRIDGE OVER THE PISCATAQUOG RIVER. THIS IS THE FINAL PHASE OF A 3 PHASE PROJECT. [04-33TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-33	MANCHESTER	14412	2008	CON	PHASE III - RAILROAD	PISCATAQUOG TRAILWAY PHASE III - IMPROVE RAIL CORRIDOR FROM BIRON BRIDGE TO THE CITY/TOWN LINE WITH GOFFSTOWN. REHABILITATE WOOD TRESTLE BRIDGE OVER THE PISCATAQUOG RIVER. THIS IS THE FINAL PHASE OF A 3 PHASE PROJECT. [04-33TE]
E-4	MANCHESTER - HOOKSETT - BOW	13917	2007	PE	NH 3A	SAFETY IMPROVEMENTS, INCLUDING SHOULDER WIDENINGS & INTERSECTION IMPROVEMENTS FROM I-293 EXIT 7 TO I-89
E-4	MANCHESTER - HOOKSETT - BOW	13917	2008	PE	NH 3A	SAFETY IMPROVEMENTS, INCLUDING SHOULDER WIDENINGS & INTERSECTION IMPROVEMENTS FROM I-293 EXIT 7 TO I-89
E-4	MANCHESTER - HOOKSETT - BOW	13917	2010	PE	NH 3A	SAFETY IMPROVEMENTS, INCLUDING SHOULDER WIDENINGS & INTERSECTION IMPROVEMENTS FROM I-293 EXIT 7 TO I-89
E-45	MANCHESTER - WEARE	13898	2007	CON		PHASE 2: DEVELOPMENT OF THE FORMER MANCHESTER & NO. WEARE RAILROAD INTO AN ALTERNATIVE TRANS. SYSTEM & REC. TRAIL; CONSTRUCT REMAINING 1.3 MILES ABANDONED RAILROAD IN MANCHESTER WHICH EXTENDS FROM WEST SIDE OF SO. MAIN ST TO GOFFSTOWN [02-38TE]
N/E	MANCHESTER TO CONCORD	14510Z	2007	CON	I-93, I-293, FEE TPK	INSTALLATION OF FIBER OPTIC CABLE AND CONDUIT FROM EXIT 13 IN CONCORD TO THE I-93 / I-293 JUNCTION IN MANCHESTER [ITS](Parent Project = 10418Z)
E-6	MARLBOROUGH		2008	PE	NH 101	IMPROVEMENTS FROM RYAN ROAD TO JEWETT STREET
E-6	MARLBOROUGH		2009	PE	NH 101	IMPROVEMENTS FROM RYAN ROAD TO JEWETT STREET
E-6	MARLBOROUGH		2009	ROW	NH 101	IMPROVEMENTS FROM RYAN ROAD TO JEWETT STREET
ATT	MEREDITH		2008	PE	NH 106	RECONSTRUCT & ADD 4' SHOULDERS FROM LACONIA T/L TO NEW US 3 INTERSECTION - APPROX. 2.0 MILES
ATT	MEREDITH		2008	ROW	NH 106	RECONSTRUCT & ADD 4' SHOULDERS FROM LACONIA T/L TO NEW US 3 INTERSECTION - APPROX. 2.0 MILES
ATT	MEREDITH	10430	2007	PE	NH 25	RECONSTRUCTION FROM CENTER HARBOR TOWN LINE SOUTH 3.2 MILES TO PLEASANT STREET APPROXIMATELY [Section 1702 - Designated Project; Demo Id NH041] [Sister Demo Id NH060 & NH071]
ATT	MEREDITH	10430	2007	ROW	NH 25	RECONSTRUCTION FROM CENTER HARBOR TOWN LINE SOUTH 3.2 MILES TO PLEASANT STREET APPROXIMATELY [Section 1702 - Designated Project; Demo Id NH041] [Sister Demo Id NH060 & NH071]
ATT	MEREDITH	10430	2008	PE	NH 25	RECONSTRUCTION FROM CENTER HARBOR TOWN LINE SOUTH 3.2 MILES TO PLEASANT STREET APPROXIMATELY [Section 1702 - Designated Project; Demo Id NH041] [Sister Demo Id NH060 & NH071]
ATT	MEREDITH	10430	2008	ROW	NH 25	RECONSTRUCTION FROM CENTER HARBOR TOWN LINE SOUTH 3.2 MILES TO PLEASANT STREET APPROXIMATELY [Section 1702 - Designated Project; Demo Id NH041] [Sister Demo Id NH060 & NH071]
ATT	MEREDITH	10430	2009	PE	NH 25	RECONSTRUCTION FROM CENTER HARBOR TOWN LINE SOUTH 3.2 MILES TO PLEASANT STREET APPROXIMATELY [Section 1702 - Designated Project; Demo Id NH041] [Sister Demo Id NH060 & NH071]
ATT	MEREDITH	10430	2009	ROW	NH 25	RECONSTRUCTION FROM CENTER HARBOR TOWN LINE SOUTH 3.2 MILES TO PLEASANT STREET APPROXIMATELY [Section 1702 - Designated Project; Demo Id NH041] [Sister Demo Id NH060 & NH071]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	MEREDITH	10430	2010	CON	NH 25	RECONSTRUCTION FROM CENTER HARBOR TOWN LINE SOUTH 3.2 MILES TO PLEASANT STREET APPROXIMATELY [Section 1702 - Designated Project; Demo Id NH041] [Sister Demo Id NH060 & NH071]
N/E	MERRIMACK		2010	PE	US 3	CAPACITY IMPROVEMENTS TO IMPROVE TRAFFIC FLOW AT A NUMBER OF INTERSECTIONS AS IDENTIFIED IN RECENT STUDIES COMPLETED BY THE TOWN OF MERRIMACK
N/E	MERRIMACK		2015	CON	US 3	CAPACITY IMPROVEMENTS TO IMPROVE TRAFFIC FLOW AT A NUMBER OF INTERSECTIONS AS IDENTIFIED IN RECENT STUDIES COMPLETED BY THE TOWN OF MERRIMACK
N/E	MERRIMACK	10625N	2016	CON	CIRCUMFERENTIAL HWY	CONSTRUCT MAINLINE, US 3 TO EXIT 9 & BRIDGES (2)
E-19	MERRIMACK	12105	2008	CON	CENTRAL TPK	BRIDGE REHABILITATION & SAFETY WORK ON FEE TPK NB & SB OVER SOUHEGAN RIVER - $111/115$
N/E	MERRIMACK	12259	2014	CON	US 3	PARK'N'RIDE, 250 SPACES - INTERMODAL FACILITY NEAR RR FACILITY, FEE Tpk, AND US 3 [94-40CM]
E-33	MERRIMACK	13494	2007	CON	D.W. HWY	CONSTRUCT 2400' SIDEWALK ON EAST SIDE OF ROAD (DW Hwy) FROM FRAZIER SQUARE TO TWIN BRIDGE PARK [00-62TE]
E-33	MERRIMACK	14413	2008	PE	DW HIGHWAY	CONSTRUCT SIDEWALKS ALONG DW HIGHWAY IN TOWN CENTER (WEST SIDE) TO FILL SEVERAL GAPS IN EXISTING SIDEWALK SYS. PROVIDE CROSSWALKS TO IMPROVEMENTS PLANNED FOR THE EAST SIDE. [04-36TE]
E-33	MERRIMACK	14413	2009	CON	DW HIGHWAY	CONSTRUCT SIDEWALKS ALONG DW HIGHWAY IN TOWN CENTER (WEST SIDE) TO FILL SEVERAL GAPS IN EXISTING SIDEWALK SYS. PROVIDE CROSSWALKS TO IMPROVEMENTS PLANNED FOR THE EAST SIDE. [04-36TE]
N/E	MERRIMACK - BEDFORD	13761	2012	PE	F.E.E.Tpk	WIDEN TURNPIKE TO A 3 LANE TYPICAL FROM EXIT 11 IN MERRIMACK TO THE BEDFORD TOLL PLAZA TO MEET CURRENT AND PROJECTED VOLUME
N/E	MERRIMACK - BEDFORD	13761	2013	ROW	F.E.E.Tpk	WIDEN TURNPIKE TO A 3 LANE TYPICAL FROM EXIT 11 IN MERRIMACK TO THE BEDFORD TOLL PLAZA TO MEET CURRENT AND PROJECTED VOLUME
N/E	MERRIMACK - BEDFORD	13761	2015	CON	F.E.E.Tpk	WIDEN TURNPIKE TO A 3 LANE TYPICAL FROM EXIT 11 IN MERRIMACK TO THE BEDFORD TOLL PLAZA TO MEET CURRENT AND PROJECTED VOLUME
N/E	MERRIMACK - NASHUA	10625I	2014	CON	CIRCUMFERENTIAL HWY	CONSTRUCT BRIDGES (4), MAINLINE & RAMPS OVER PENNICHUCK BROOK - PHASE 1
N/E	MERRIMACK - NASHUA	10625M	2016	CON	CIRCUMFERENTIAL HWY	CONSTRUCT FOR NHCH & FEE TPK: MAINLINE, RAMPS, & BRIDGES (5) @ EXIT 9 INTERCHANGE - PHASE 1
ATT	MILAN - DUMMER		2008	PE	NH 16	UPGRADE ROADWAY FROM SOUTH OF MILAN VILLAGE NORTH TO DUMMER / CAMBRIDGE / ERROL PROJECT - RECONSTRUCT BASE TO NEGATE NEED FOR SPRING ROAD BAN & ADD 5' SHOULDERS
ATT	MILAN - DUMMER		2009	PE	NH 16	UPGRADE ROADWAY FROM SOUTH OF MILAN VILLAGE NORTH TO DUMMER / CAMBRIDGE / ERROL PROJECT - RECONSTRUCT BASE TO NEGATE NEED FOR SPRING ROAD BAN & ADD 5' SHOULDERS
ATT	MILAN - DUMMER		2009	ROW	NH 16	UPGRADE ROADWAY FROM SOUTH OF MILAN VILLAGE NORTH TO DUMMER / CAMBRIDGE / ERROL PROJECT - RECONSTRUCT BASE TO NEGATE NEED FOR SPRING ROAD BAN & ADD 5' SHOULDERS

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-45	MILFORD	06-28TE	2007	PE	SOUTH STREET	SOUTH STREET IMPROVEMENT PROJECT: CONSTRUCT THE PHASE 2 PORTION OF THE DOWNTOWN REVITALIZATION PLAN TO IMPROVE OVERALL SAFETY, PHYSICAL / ADA ACCESSIBILITY, FUNCTIONALITY, DESIGN AND GENERAL AESTHETIC OF THE INTERSECTION. [06-28TE]
E-45	MILFORD	06-28TE	2008	PE	SOUTH STREET	SOUTH STREET IMPROVEMENT PROJECT: CONSTRUCT THE PHASE 2 PORTION OF THE DOWNTOWN REVITALIZATION PLAN TO IMPROVE OVERALL SAFETY, PHYSICAL / ADA ACCESSIBILITY, FUNCTIONALITY, DESIGN AND GENERAL AESTHETIC OF THE INTERSECTION. [06-28TE]
E-45	MILFORD	06-28TE	2009	ROW	SOUTH STREET	SOUTH STREET IMPROVEMENT PROJECT: CONSTRUCT THE PHASE 2 PORTION OF THE DOWNTOWN REVITALIZATION PLAN TO IMPROVE OVERALL SAFETY, PHYSICAL / ADA ACCESSIBILITY, FUNCTIONALITY, DESIGN AND GENERAL AESTHETIC OF THE INTERSECTION. [06-28TE]
E-45	MILFORD	06-28TE	2010	CON	SOUTH STREET	SOUTH STREET IMPROVEMENT PROJECT: CONSTRUCT THE PHASE 2 PORTION OF THE DOWNTOWN REVITALIZATION PLAN TO IMPROVE OVERALL SAFETY, PHYSICAL / ADA ACCESSIBILITY, FUNCTIONALITY, DESIGN AND GENERAL AESTHETIC OF THE INTERSECTION. [06-28TE]
E-10	MILFORD	14492	2007	PE	NH 101A & NH 13	IMPROVEMENTS IN THE AREA KNOWN AS THE "OVAL" TO IMPROVE TRAFFIC FLOW BASED ON RESULTS OF ONGOING TRAFFIC STUDIES WITHIN THE TOWN [Section 1702 - Designated Project; Demo Id NH038] [Sister Demo Id NH058]
E-10	MILFORD	14492	2008	PE	NH 101A & NH 13	IMPROVEMENTS IN THE AREA KNOWN AS THE "OVAL" TO IMPROVE TRAFFIC FLOW BASED ON RESULTS OF ONGOING TRAFFIC STUDIES WITHIN THE TOWN [Section 1702 - Designated Project; Demo Id NH038] [Sister Demo Id NH058]
E-10	MILFORD	14492	2008	ROW	NH 101A & NH 13	IMPROVEMENTS IN THE AREA KNOWN AS THE "OVAL" TO IMPROVE TRAFFIC FLOW BASED ON RESULTS OF ONGOING TRAFFIC STUDIES WITHIN THE TOWN [Section 1702 - Designated Project; Demo Id NH038] [Sister Demo Id NH058]
E-53	MILFORD TO NASHUA	10136	2007	PE	NH 101A	ROADWAY IMPROVEMENTS FROM NH 101 TO FEE TPK (7.5 MILES); CONSTRUCTION PROJECTS TO BE DETERMINED BY CORRIDOR STUDY
E-53	MILFORD TO NASHUA	10136	2007	ROW	NH 101A	ROADWAY IMPROVEMENTS FROM NH 101 TO FEE TPK (7.5 MILES); CONSTRUCTION PROJECTS TO BE DETERMINED BY CORRIDOR STUDY
E-53	MILFORD TO NASHUA	10136	2008	PE	NH 101A	ROADWAY IMPROVEMENTS FROM NH 101 TO FEE TPK (7.5 MILES); CONSTRUCTION PROJECTS TO BE DETERMINED BY CORRIDOR STUDY
E-53	MILFORD TO NASHUA	10136	2008	ROW	NH 101A	ROADWAY IMPROVEMENTS FROM NH 101 TO FEE TPK (7.5 MILES); CONSTRUCTION PROJECTS TO BE DETERMINED BY CORRIDOR STUDY
E-53	MILFORD TO NASHUA	10136	2009	PE	NH 101A	ROADWAY IMPROVEMENTS FROM NH 101 TO FEE TPK (7.5 MILES); CONSTRUCTION PROJECTS TO BE DETERMINED BY CORRIDOR STUDY
E-53	MILFORD TO NASHUA	10136	2009	ROW	NH 101A	ROADWAY IMPROVEMENTS FROM NH 101 TO FEE TPK (7.5 MILES); CONSTRUCTION PROJECTS TO BE DETERMINED BY CORRIDOR STUDY
E-53	MILFORD TO NASHUA	10136	2010	CON	NH 101A	ROADWAY IMPROVEMENTS FROM NH 101 TO FEE TPK (7.5 MILES); CONSTRUCTION PROJECTS TO BE DETERMINED BY CORRIDOR STUDY
ATT	MOULTONBOROUGH		2008	PE	NH 25	ROADWAY RECONSTRUCTION FROM MOULTONBOROUGH NECK ROAD EASTERLY 3.5 MILES TO NH 109 SOUTH TO INCLUDE THE RECONSTRUCTION OF THE INTERSECTION OF NH 25 AND NH 109 NORTH

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	MOULTONBOROUGH		2009	PE	NH 25	ROADWAY RECONSTRUCTION FROM MOULTONBOROUGH NECK ROAD EASTERLY 3.5 MILES TO NH 109 SOUTH TO INCLUDE THE RECONSTRUCTION OF THE INTERSECTION OF NH 25 AND NH 109 NORTH
ATT	MOULTONBOROUGH		2009	ROW	NH 25	ROADWAY RECONSTRUCTION FROM MOULTONBOROUGH NECK ROAD EASTERLY 3.5 MILES TO NH 109 SOUTH TO INCLUDE THE RECONSTRUCTION OF THE INTERSECTION OF NH 25 AND NH 109 NORTH
ATT	MOULTONBOROUGH		2010	PE	NH 25	ROADWAY RECONSTRUCTION FROM MOULTONBOROUGH NECK ROAD EASTERLY 3.5 MILES TO NH 109 SOUTH TO INCLUDE THE RECONSTRUCTION OF THE INTERSECTION OF NH 25 AND NH 109 NORTH
E-24	NASHUA		2007	UNK	NASHUA TRANSIT SYSTEM	CAPITAL EQUIPMENT
E-21	NASHUA		2007	UNK	NASHUA TRANSIT SYSTEM	PREVENTIVE MAINTENANCE
N/E	NASHUA		2008	PE	EAST HOLLIS STREET	RECONSTRUCTION OF EAST HOLLIS STREET FROM MAIN STREET TO HUDSON TOWN LINE TO IMPROVE CAPACITY
E-24	NASHUA		2008	UNK	NASHUA TRANSIT SYSTEM	CAPITAL EQUIPMENT
E-21	NASHUA		2008	UNK	NASHUA TRANSIT SYSTEM	PREVENTIVE MAINTENANCE
N/E	NASHUA		2009	PE	EAST HOLLIS STREET	RECONSTRUCTION OF EAST HOLLIS STREET FROM MAIN STREET TO HUDSON TOWN LINE TO IMPROVE CAPACITY
E-24	NASHUA		2009	UNK	NASHUA TRANSIT SYSTEM	CAPITAL EQUIPMENT
E-21	NASHUA		2009	UNK	NASHUA TRANSIT SYSTEM	PREVENTIVE MAINTENANCE
N/E	NASHUA		2010	PE	EAST HOLLIS STREET	RECONSTRUCTION OF EAST HOLLIS STREET FROM MAIN STREET TO HUDSON TOWN LINE TO IMPROVE CAPACITY
E-24	NASHUA		2010	UNK	NASHUA TRANSIT SYSTEM	CAPITAL EQUIPMENT
E-21	NASHUA		2010	UNK	NASHUA TRANSIT SYSTEM	PREVENTIVE MAINTENANCE
N/E	NASHUA		2011	PE	EAST HOLLIS STREET	RECONSTRUCTION OF EAST HOLLIS STREET FROM MAIN STREET TO HUDSON TOWN LINE TO IMPROVE CAPACITY
N/E	NASHUA		2013	ROW	EAST HOLLIS STREET	RECONSTRUCTION OF EAST HOLLIS STREET FROM MAIN STREET TO HUDSON TOWN LINE TO IMPROVE CAPACITY
N/E	NASHUA		2013	CON	EAST HOLLIS STREET	RECONSTRUCTION OF EAST HOLLIS STREET FROM MAIN STREET TO HUDSON TOWN LINE TO IMPROVE CAPACITY
N/E	NASHUA		2014	PE	FEE Tpk	NEW SOUTH BOUND OFF RAMP @ MA. EXIT 36 TO CONNECT WITH DW Hwy & PHEASANT LANE MALL (1.9 Miles) (Feasibility Study)
N/E	NASHUA	06-13CM	2009	CON		INCREASED TRANSIT SERVICE [06-13CM]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-45	NASHUA	06-30TE	2007	ROW		RAIL TRAIL ACQUISITION FROM MAIN STREET TO EAST HOLLIS STREET: PURCHASE THE REMAINING ABANDONED RAILROAD CORRIDOR THAT INCORPORATES WALKING AND BIKING FACILITIES, AND POSSIBLY MASS TRANSIT IN THE FUTURE. [06-30TE]
N/E	NASHUA	10040A	2007	PE	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040A	2007	ROW	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040A	2008	PE	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040A	2008	ROW	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040A	2009	PE	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040A	2009	ROW	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040A	2010	PE	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040A	2010	ROW	BROAD STREET PARKWAY	SECOND RIVER BRIDGE CROSSING OVER NASHUA RIVER [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040G	2010	CON	BALDWIN STREET	RECONSTRUCTION AND EXTENSION FROM AMHERST STREET, OVER B&M RAILROAD AND THE FUTURE BROAD STREET PARKWAY TO FAIRMOUNT STREET, WITH CONNECTOR TO FUTURE PARKWAY
N/E	NASHUA	10040G	2010	CON	BALDWIN STREET	RECONSTRUCTION AND EXTENSION FROM AMHERST STREET, OVER B&M RAILROAD AND THE FUTURE BROAD STREET PARKWAY TO FAIRMOUNT STREET, WITH CONNECTOR TO FUTURE PARKWAY [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040Н	2009	CON	BROAD STREET PARKWAY	CONSTRUCTION FROM NASHUA RIVER WESTERLY TO BROAD STREET (TO SUBGRADE ONLY)
N/E	NASHUA	10040H	2009	CON	BROAD STREET PARKWAY	CONSTRUCTION FROM NASHUA RIVER WESTERLY TO BROAD STREET (TO SUBGRADE ONLY) [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040I	2012	CON	BROAD STREET PARKWAY	CONSTRUCTION OF BRIDGE OVER NASHUA RIVER; FAIRMOUNT STREET BRIDGE OVER PARKWAY
N/E	NASHUA	10040J	2010	CON	BROAD STREET PARKWAY	CONSTRUCTION FROM WEST HOLLIS STREET TO PINE STREET EXTENSION INCLUDING BRIDGE OVER CANAL
N/E	NASHUA	10040J	2010	CON	BROAD STREET PARKWAY	CONSTRUCTION FROM WEST HOLLIS STREET TO PINE STREET EXTENSION INCLUDING BRIDGE OVER CANAL [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040K	2012	CON	BROAD STREET PARKWAY	BASE COURSES, WEARING COURSES, SIGNING, MARKINGS, RR CROSSING, AND SIGNALS
N/E	NASHUA	10040L	2013	CON	BROAD STREET PARKWAY	PROJECT WIDE LANDSCAPING

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
DNA	NASHUA	10040M	2007	CON	BROAD STREET PARKWAY	CHIMNEY STABILIZATION
N/E	NASHUA	10040P	2007	ROW	BROAD STREET PARKWAY	BUILDING DEMOLITION PROJECT WIDE (TO CONSTRUCT SECOND BRIDGE CROSSING OF NASHUA RIVER)
N/E	NASHUA	10040S	2008	ROW	BROAD STREET PARKWAY	DEMOLITION OF "NIMCO" BUILDING
N/E	NASHUA	10040S	2009	ROW	BROAD STREET PARKWAY	DEMOLITION OF "NIMCO" BUILDING [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040S	2010	ROW	BROAD STREET PARKWAY	DEMOLITION OF "NIMCO" BUILDING [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10040T	2009	ROW	BROAD STREET PARKWAY	MILLYARD UTILITY RELOCATION
N/E	NASHUA	10040T	2009	ROW	BROAD STREET PARKWAY	MILLYARD UTILITY RELOCATION [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A, G, H, J, S, T]
N/E	NASHUA	10136A	2007	PE	NH 101A	WIDENING BETWEEN CELINA AVENUE INTERSECTION TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY (Milford to Nashua 10136)
N/E	NASHUA	10136A	2008	PE	NH 101A	WIDENING BETWEEN CELINA AVENUE INTERSECTION TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY
N/E	NASHUA	10136A	2008	PE	NH 101A	WIDENING BETWEEN CELINA AVENUE INTERSECTION TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY (Milford to Nashua 10136)
N/E	NASHUA	10136A	2009	ROW	NH 101A	WIDENING BETWEEN CELINA AVENUE INTERSECTION TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY
N/E	NASHUA	10136A	2009	ROW	NH 101A	WIDENING BETWEEN CELINA AVENUE INTERSECTION TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY (Milford to Nashua 10136)
N/E	NASHUA	10136A	2010	CON	NH 101A	WIDENING BETWEEN CELINA AVENUE INTERSECTION TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY
N/E	NASHUA	10136A	2010	CON	NH 101A	WIDENING BETWEEN CELINA AVENUE INTERSECTION TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY (Milford to Nashua 10136)
N/E	NASHUA	13117	2007	PE	FEE TPK	CONSTRUCT 1000 SPACE PARK'N'RIDE NEAR B&M RR WITH RAIL PLATFORM; FACILITY WILL BE USED FOR CAR POOL, VANPOOL, & PASSENGER RAIL MODES [98- 13CM]
N/E	NASHUA	13117	2007	ROW	FEE TPK	CONSTRUCT 1000 SPACE PARK'N'RIDE NEAR B&M RR WITH RAIL PLATFORM; FACILITY WILL BE USED FOR CAR POOL, VANPOOL, & PASSENGER RAIL MODES [98- 13CM]
N/E	NASHUA	13117	2007	CON	FEE TPK	CONSTRUCT 1000 SPACE PARK'N'RIDE NEAR B&M RR WITH RAIL PLATFORM; FACILITY WILL BE USED FOR CAR POOL, VANPOOL, & PASSENGER RAIL MODES [98- 13CM]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	NASHUA	13117	2008	CON	FEE TPK	CONSTRUCT 1000 SPACE PARK'N'RIDE NEAR B&M RR WITH RAIL PLATFORM; FACILITY WILL BE USED FOR CAR POOL, VANPOOL, & PASSENGER RAIL MODES [98- 13CM]
N/E	NASHUA	13514	2008	CON		PURCHASE COMMUTER RAIL EQUIPMENT [00-12CM]
N/E	NASHUA	13875	2008	PE		PROVIDE 3 YEARS OPERATING SUPPORT FOR LOWELL - NASHUA COMMUTER RAIL STARTUP [02-22CM]
N/E	NASHUA	13875	2009	PE		PROVIDE 3 YEARS OPERATING SUPPORT FOR LOWELL - NASHUA COMMUTER RAIL STARTUP [02-22CM]
N/E	NASHUA	13875	2010	PE		PROVIDE 3 YEARS OPERATING SUPPORT FOR LOWELL - NASHUA COMMUTER RAIL STARTUP [02-22CM]
E-53	NASHUA	13931	2007	PE	NH 130	BROAD STREET RECONSTRUCTION FROM COBURN AVE TO COLISEUM AVE, INCLUDING DUBLIN AVE, TO PROVIDE SHOULDERS / SAFETY IMPROVEMENTS
E-53	NASHUA	13931	2008	PE	NH 130	BROAD STREET RECONSTRUCTION FROM COBURN AVE TO COLISEUM AVE, INCLUDING DUBLIN AVE, TO PROVIDE SHOULDERS / SAFETY IMPROVEMENTS
E-53	NASHUA	13931	2009	PE	NH 130	BROAD STREET RECONSTRUCTION FROM COBURN AVE TO COLISEUM AVE, INCLUDING DUBLIN AVE, TO PROVIDE SHOULDERS / SAFETY IMPROVEMENTS
E-53	NASHUA	13931	2009	ROW	NH 130	BROAD STREET RECONSTRUCTION FROM COBURN AVE TO COLISEUM AVE, INCLUDING DUBLIN AVE, TO PROVIDE SHOULDERS / SAFETY IMPROVEMENTS
E-53	NASHUA	13931	2010	CON	NH 130	BROAD STREET RECONSTRUCTION FROM COBURN AVE TO COLISEUM AVE, INCLUDING DUBLIN AVE, TO PROVIDE SHOULDERS / SAFETY IMPROVEMENTS
N/E	NASHUA	14432	2009	PE	VARIOUS	TRAFFIC SIGNALS, EXPAND THE CLOSED LOOP SYSTEM TO INCLUDE THIRTY ADDITIONAL INTERSECTIONS [04-30CM]
N/E	NASHUA	14432	2009	PE	VARIOUS	TRAFFIC SIGNALS, EXPAND THE CLOSED LOOP SYSTEM TO INCLUDE THIRTY ADDITIONAL INTERSECTIONS [04-30CM]
N/E	NASHUA	14432	2010	CON	VARIOUS	TRAFFIC SIGNALS, EXPAND THE CLOSED LOOP SYSTEM TO INCLUDE THIRTY ADDITIONAL INTERSECTIONS [04-30CM]
N/E	NASHUA	14432	2010	CON	VARIOUS	TRAFFIC SIGNALS, EXPAND THE CLOSED LOOP SYSTEM TO INCLUDE THIRTY ADDITIONAL INTERSECTIONS [04-30CM]
N/E	NASHUA - HUDSON	10644	2007	PE	CIRCUMFERENTIAL HWY	DESIGN NORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. SEGMENT NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; PHASE 3 - R.O.W. SEGMENT NH 102 TO NH 111
N/E	NASHUA - HUDSON	10644	2007	ROW	CIRCUMFERENTIAL HWY	DESIGN NORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. SEGMENT NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; PHASE 3 - R.O.W. SEGMENT NH 102 TO NH 111
N/E	NASHUA - HUDSON	10644	2008	PE	CIRCUMFERENTIAL HWY	DESIGN NORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. SEGMENT NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; PHASE 3 - R.O.W. SEGMENT NH 102 TO NH 111
N/E	NASHUA - HUDSON	10644	2008	ROW	CIRCUMFERENTIAL HWY	DESIGN NORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. SEGMENT NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; PHASE 3 - R.O.W. SEGMENT NH 102 TO NH 111

N/E NASHUA - HUDSON 10644 2009 ROW CIRCUMFERENTIAL HWY DESIGN NOT SEGMENT PHASE 3 - 1 N/E NASHUA - HUDSON 10644 2010 PE CIRCUMFERENTIAL HWY DESIGN NOT SEGMENT PHASE 3 - 1 N/E NASHUA - HUDSON 10644 2010 ROW CIRCUMFERENTIAL HWY DESIGN NOT SEGMENT PHASE 3 - 1	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111 ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111 ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W.
N/E NASHUA - HUDSON 10644 2010 PE CIRCUMFERENTIAL HWY DESIGN NO SEGMENT PHASE 3 - 1 N/E NASHUA - HUDSON 10644 2010 ROW CIRCUMFERENTIAL HWY DESIGN NO DESIGN	NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT PHASE 3 - I N/E NASHUA - HUDSON 10644 2010 ROW CIRCUMFERENTIAL HWY DESIGN NO	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W.
	NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
SEGMENT	ORTH SEGMENT BETWEEN NH 111 & FEE TURNPIKE: PHASE 1 - R.O.W. NH 3A TO FEE TURNPIKE; PHASE 2 - R.O.W. SEGMENT NH 3A TO NH 102; R.O.W. SEGMENT NH 102 TO NH 111
N/E NASHUA - MERRIMACK 10625L 2016 CON CIRCUMFERENTIAL HWY CONSTRUCT PHASE 1	CT MAINLINE, RAMPS, US 3 ROADWAY IMPROVEMENTS & BRIDGES (2) -
N/E NASHUA - MERRIMACK 10625U 2014 CON F.E.E.Tpk WIDENING	TO CIRCUMFERENTIAL HWY NORTH

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-45	NEW BOSTON	06-34TE	2007	PE		MILLPOND FOOTBRIDGE: CONSTRUCT STEEL TRUSS BRIDGE WITH A SPAN OF 110' AND A WIDTH OF 6'. A BOARDWALK WILL BE CONSTRUCTED LEADING UP TO THE BRIDGE. [06-34TE]
E-45	NEW BOSTON	06-34TE	2008	PE		MILLPOND FOOTBRIDGE: CONSTRUCT STEEL TRUSS BRIDGE WITH A SPAN OF 110' AND A WIDTH OF 6'. A BOARDWALK WILL BE CONSTRUCTED LEADING UP TO THE BRIDGE. [06-34TE]
E-45	NEW BOSTON	06-34TE	2009	ROW		MILLPOND FOOTBRIDGE: CONSTRUCT STEEL TRUSS BRIDGE WITH A SPAN OF 110' AND A WIDTH OF 6'. A BOARDWALK WILL BE CONSTRUCTED LEADING UP TO THE BRIDGE. [06-34TE]
E-45	NEW BOSTON	06-34TE	2010	CON		MILLPOND FOOTBRIDGE: CONSTRUCT STEEL TRUSS BRIDGE WITH A SPAN OF 110' AND A WIDTH OF 6'. A BOARDWALK WILL BE CONSTRUCTED LEADING UP TO THE BRIDGE. [06-34TE]
N/E	NEW BOSTON	14772	2007	PE	US 202	RECONSTRUCTION FROM NH 101 INTERSECTION NORTH 2.5 MILES
N/E	NEW BOSTON	14772	2009	PE	US 202	RECONSTRUCTION FROM NH 101 INTERSECTION NORTH 2.5 MILES
N/E	NEW BOSTON	14772	2010	PE	US 202	RECONSTRUCTION FROM NH 101 INTERSECTION NORTH 2.5 MILES
N/E	NEW BOSTON	14772	2010	ROW	US 202	RECONSTRUCTION FROM NH 101 INTERSECTION NORTH 2.5 MILES
E-45	NEW CASTLE	06-35TE	2007	PE	NH 1B	CONSTRUCT SIDEWALK BETWEEN RESIDENTIAL NEIGHBORHOODS AND THE ELEMENTARY SCHOOL (300 LF) AND BETWEEN THE GREAT COMMON (LIBRARY/PARK/BEACH) AND THE WENTWORTH HOTEL (1,150 LF). [06-35TE]
E-45	NEW CASTLE	06-35TE	2008	PE	NH 1B	CONSTRUCT SIDEWALK BETWEEN RESIDENTIAL NEIGHBORHOODS AND THE ELEMENTARY SCHOOL (300 LF) AND BETWEEN THE GREAT COMMON (LIBRARY/PARK/BEACH) AND THE WENTWORTH HOTEL (1,150 LF). [06-35TE]
E-45	NEW CASTLE	06-35TE	2009	ROW	NH 1B	CONSTRUCT SIDEWALK BETWEEN RESIDENTIAL NEIGHBORHOODS AND THE ELEMENTARY SCHOOL (300 LF) AND BETWEEN THE GREAT COMMON (LIBRARY/PARK/BEACH) AND THE WENTWORTH HOTEL (1,150 LF). [06-35TE]
E-45	NEW CASTLE	06-35TE	2010	CON	NH 1B	CONSTRUCT SIDEWALK BETWEEN RESIDENTIAL NEIGHBORHOODS AND THE ELEMENTARY SCHOOL (300 LF) AND BETWEEN THE GREAT COMMON (LIBRARY/PARK/BEACH) AND THE WENTWORTH HOTEL (1,150 LF). [06-35TE]
ATT	NEW HAMPTON	13876	2007	CON	NH 104	EXIT 23 PARK'N'RIDE EXPANSION [02-24CM]
ATT	NEW HAMPTON - MEREDITH		2008	PE	NH 104	RECONSTRUCTION FROM I-93 TO MEREDITH CENTER RD. TO IMPROVE HORIZONTAL AND VERTICAL ALIGNMENT AND TO WIDEN SHOULDERS [APPROX. 4 MILES]
ATT	NEW HAMPTON - MEREDITH		2009	PE	NH 104	RECONSTRUCTION FROM I-93 TO MEREDITH CENTER RD. TO IMPROVE HORIZONTAL AND VERTICAL ALIGNMENT AND TO WIDEN SHOULDERS [APPROX. 4 MILES]
ATT	NEW HAMPTON - MEREDITH		2009	ROW	NH 104	RECONSTRUCTION FROM I-93 TO MEREDITH CENTER RD. TO IMPROVE HORIZONTAL AND VERTICAL ALIGNMENT AND TO WIDEN SHOULDERS [APPROX. 4 MILES]
ATT	NEW HAMPTON - MEREDITH		2010	PE	NH 104	RECONSTRUCTION FROM I-93 TO MEREDITH CENTER RD. TO IMPROVE HORIZONTAL AND VERTICAL ALIGNMENT AND TO WIDEN SHOULDERS [APPROX. 4 MILES]
E-19	NEW IPSWICH	14465	2007	PE	NH 123 / 124	REPLACE BRIDGE OVER SOUHEGAN RIVER - 157/093
E-19	NEW IPSWICH	14465	2008	ROW	NH 123 / 124	REPLACE BRIDGE OVER SOUHEGAN RIVER - 157/093
E-19	NEW IPSWICH	14465	2010	CON	NH 123 / 124	REPLACE BRIDGE OVER SOUHEGAN RIVER - 157/093

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-10	NEW LONDON		2010	PE	NH 114 (Main St)	RECONSTRUCTION, NH 11 (CROCKETT'S CORNER) NORTHERLY TO NEWPORT ROAD (HOMAN'S CORNER)
E-10	NEW LONDON		2010	ROW	NH 114 (Main St)	RECONSTRUCTION, NH 11 (CROCKETT'S CORNER) NORTHERLY TO NEWPORT ROAD (HOMAN'S CORNER)
E-33	NEW LONDON	14415	2007	ROW	NEWPORT RD / COUNTY RD	INSTALL 800' SIDEWALK NORTH SIDE OF NEWPORT RD, INSTALL 1000' SIDEWALK WEST SIDE OF COUNTY RD. INTERSECTION IMPROVEMENTS (Traffic Signal or Modern Roundabout) [04-46TE]
E-33	NEW LONDON	14415	2007	CON	NEWPORT RD / COUNTY RD	INSTALL 800' SIDEWALK NORTH SIDE OF NEWPORT RD, INSTALL 1000' SIDEWALK WEST SIDE OF COUNTY RD. INTERSECTION IMPROVEMENTS (Traffic Signal or Modern Roundabout) [04-46TE]
E-45	NEWBURY	06-38TE	2007	PE	NH 103	LAKE SUNAPEE WATERFRONT PEDESTRIAN IMPROVEMENTS: NH 103 SIDEWALK AND LIGHTING IMPROVEMENTS LINKING TOWN AMENITIES. [06-38TE]
E-45	NEWBURY	06-38TE	2008	PE	NH 103	LAKE SUNAPEE WATERFRONT PEDESTRIAN IMPROVEMENTS: NH 103 SIDEWALK AND LIGHTING IMPROVEMENTS LINKING TOWN AMENITIES. [06-38TE]
E-45	NEWBURY	06-38TE	2008	ROW	NH 103	LAKE SUNAPEE WATERFRONT PEDESTRIAN IMPROVEMENTS: NH 103 SIDEWALK AND LIGHTING IMPROVEMENTS LINKING TOWN AMENITIES. [06-38TE]
E-45	NEWBURY	06-38TE	2010	CON	NH 103	LAKE SUNAPEE WATERFRONT PEDESTRIAN IMPROVEMENTS: NH 103 SIDEWALK AND LIGHTING IMPROVEMENTS LINKING TOWN AMENITIES. [06-38TE]
N/E	NEWINGTON - DOVER	11238	2007	PE	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2007	PE	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]
N/E	NEWINGTON - DOVER	11238	2008	PE	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2008	PE	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]
N/E	NEWINGTON - DOVER	11238	2008	ROW	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2008	ROW	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]
N/E	NEWINGTON - DOVER	11238	2009	PE	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2009	PE	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]
N/E	NEWINGTON - DOVER	11238	2009	ROW	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	NEWINGTON - DOVER	11238	2010	PE	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]
N/E	NEWINGTON - DOVER	11238	2010	ROW	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2010	ROW	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]
N/E	NEWINGTON - DOVER	11238	2010	CON	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2010	CON	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section 117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053 & NH070]
N/E	NEWINGTON - DOVER	11238	2011	CON	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2012	CON	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2013	CON	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2014	CON	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238	2015	CON	NH 16 / US 4 / SPLDG TPK	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238J	2007	ROW	SPLDG TPK / NH 16 / US 4	WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL
N/E	NEWINGTON - DOVER	11238K	2007	PE	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2007	ROW	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2008	PE	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2008	ROW	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2009	PE	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2009	ROW	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2009	CON	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2010	PE	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	NEWINGTON - DOVER	11238K	2010	ROW	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
N/E	NEWINGTON - DOVER	11238K	2010	CON	NH 16 / US 4 / SPAULDING TURNPIKE	RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds only to the federally-funded portion of the 11238 project for PE, ROW & Construction)
E-33	NEWMARKET	13499	2007	CON	MAIN STREET	RECONSTRUCT MAIN STREET TO IMPROVE PEDESTRIAN FACILITIES [00-73TE]
N/E	NEWMARKET - NEWFIELDS	13878	2007	CON	NH 108	CONSTRUCT 4' BIKE SHOULDERS FROM THE SOUTHERLY LIMIT OF PROJECT 13107 IN NEWMARKET TO THE NORTHERLY LIMIT OF PROJECT P4386 IN NEWFIELDS [02-25CM]
N/E	NEWMARKET - NEWFIELDS	13878	2007	CON	NH 108	CONSTRUCT 4' BIKE SHOULDERS FROM THE SOUTHERLY LIMIT OF PROJECT 13107 IN NEWMARKET TO THE NORTHERLY LIMIT OF PROJECT P4386 IN NEWFIELDS [02-25CM]
E-45	NEWPORT	06-40TE	2007	PE		HISTORIC PRESERVATION OF NATIONAL REGISTER RAIL BRIDGES: PROVIDE FIRE PROTECTION FOR TWO EARLY TWENTIETH CENTURY WOODEN COVERED RAILROAD BRIDGES. [06-40TE]
E-45	NEWPORT	06-40TE	2008	CON		HISTORIC PRESERVATION OF NATIONAL REGISTER RAIL BRIDGES: PROVIDE FIRE PROTECTION FOR TWO EARLY TWENTIETH CENTURY WOODEN COVERED RAILROAD BRIDGES. [06-40TE]
ATT	NEWPORT	13500	2007	PE		REHABILITATE RR BRIDGE [00-76TE]
ATT	NEWPORT	13500	2008	CON		REHABILITATE RR BRIDGE [00-76TE]
E-10	NEWPORT - GOSHEN - LEMPSTER - MARLOW	13952	2008	PE	NH 10	RECONSTRUCT / REHABILITATE FROM NEWPORT TO NH 123A IN MARLOW (15.0 MI)
E-10	NEWPORT - GOSHEN - LEMPSTER - MARLOW	13952	2008	ROW	NH 10	RECONSTRUCT / REHABILITATE FROM NEWPORT TO NH 123A IN MARLOW (15.0 MI)
E-45	NORTH HAMPTON	06-42TE	2007	PE	NH 111	SCHOOL ZONE SIDEWALK IMPROVEMENTS: CONSTRUCT 0.2 MILES OF SIDEWALK ALONG NH 111 CONNECTING ELEMENTARY SCHOOLS WITH THE TOWN AMENITIES. [06-42TE]
E-45	NORTH HAMPTON	06-42TE	2008	PE	NH 111	SCHOOL ZONE SIDEWALK IMPROVEMENTS: CONSTRUCT 0.2 MILES OF SIDEWALK ALONG NH 111 CONNECTING ELEMENTARY SCHOOLS WITH THE TOWN AMENITIES. [06-42TE]
E-45	NORTH HAMPTON	06-42TE	2009	ROW	NH 111	SCHOOL ZONE SIDEWALK IMPROVEMENTS: CONSTRUCT 0.2 MILES OF SIDEWALK ALONG NH 111 CONNECTING ELEMENTARY SCHOOLS WITH THE TOWN AMENITIES. [06-42TE]
E-45	NORTH HAMPTON	06-42TE	2010	CON	NH 111	SCHOOL ZONE SIDEWALK IMPROVEMENTS: CONSTRUCT 0.2 MILES OF SIDEWALK ALONG NH 111 CONNECTING ELEMENTARY SCHOOLS WITH THE TOWN AMENITIES. [06-42TE]
E-33	NORTH HAMPTON	13501	2007	ROW	NH 111	FROM INTERSECTION WITH HOBBS ROAD TO US 1, SHOULDER IMPROVEMENTS US 1 [00-77TE]
E-33	NORTH HAMPTON	13501	2007	CON	NH 111	FROM INTERSECTION WITH HOBBS ROAD TO US 1, SHOULDER IMPROVEMENTS US 1 $[00\text{-}77\text{TE}]$
N/E	NORTHFIELD	13596	2008	PE	I-93	COMPLETE EXIT 19
N/E	NORTHFIELD	13596	2008	ROW	I-93	COMPLETE EXIT 19
N/E	NORTHFIELD	13596	2010	PE	I-93	COMPLETE EXIT 19

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	NORTHFIELD	13596	2011	PE	I-93	COMPLETE EXIT 19
N/E	NORTHFIELD	13596	2012	ROW	I-93	COMPLETE EXIT 19
N/E	NORTHFIELD	13596	2014	CON	I-93	COMPLETE EXIT 19
ATT	NORTHUMBERLAND	12990	2010	PE	US 3	RECONSTRUCTION, SOUTH FROM STRATFORD TOWN LINE, 1.4 MILES
ATT	OSSIPEE		2009	PE	NH 16/25	RECONSTRUCT ROADWAY AND REHABILITATE 4 BRIDGES, BEGINNING AT THE LOVELL RIVER BRIDGE, RUNNING NORTH 3.22 MILES TO THE CHOCORUA RIVER - 137/299, 137/297, 152/268, 123/324
ATT	OSSIPEE		2009	ROW	NH 16/25	RECONSTRUCT ROADWAY AND REHABILITATE 4 BRIDGES, BEGINNING AT THE LOVELL RIVER BRIDGE, RUNNING NORTH 3.22 MILES TO THE CHOCORUA RIVER - 137/299, 137/297, 152/268, 123/324
ATT	OSSIPEE		2010	PE	NH 16/25	RECONSTRUCT ROADWAY AND REHABILITATE 4 BRIDGES, BEGINNING AT THE LOVELL RIVER BRIDGE, RUNNING NORTH 3.22 MILES TO THE CHOCORUA RIVER - 137/299, 137/297, 152/268, 123/324
ATT	OSSIPEE	13910	2009	PE	NH 16, NH 25, NH 41	INTERSECTION IMPROVEMENTS IN WEST OSSIPEE AT THE INTERSECTION OF NH 16 AND NH 25 TO INCLUDE THE RELOCATION OF NH 41 TO THE INTERSECTION OF NH 16 AND NH 25 WEST
ATT	OSSIPEE	13910	2009	ROW	NH 16, NH 25, NH 41	INTERSECTION IMPROVEMENTS IN WEST OSSIPEE AT THE INTERSECTION OF NH 16 AND NH 25 TO INCLUDE THE RELOCATION OF NH 41 TO THE INTERSECTION OF NH 16 AND NH 25 WEST
ATT	OSSIPEE	13910	2010	PE	NH 16, NH 25, NH 41	INTERSECTION IMPROVEMENTS IN WEST OSSIPEE AT THE INTERSECTION OF NH 16 AND NH 25 TO INCLUDE THE RELOCATION OF NH 41 TO THE INTERSECTION OF NH 16 AND NH 25 WEST
ATT	OSSIPEE	13910	2010	ROW	NH 16, NH 25, NH 41	INTERSECTION IMPROVEMENTS IN WEST OSSIPEE AT THE INTERSECTION OF NH 16 AND NH 25 TO INCLUDE THE RELOCATION OF NH 41 TO THE INTERSECTION OF NH 16 AND NH 25 WEST
ATT	OSSIPEE - FREEDOM - EFFINGHAM	13901	2007	PE		SPUR OF OSSIPEE LAKE TRAIL: CONSTRUCT A 0.3 MILE FACILITY WITH A BIKE/PED UNDERPASS. THIS SPUR WILL CONNECT TO 23 MILE OSSIPEE LAKE TRAIL, STATEWIDE BIKE ROUTE SYSTEM AND DOT PROPOSED OSSIPEE MULTI MODAL TRANSPORTATION FACILITY [02-49TE]
ATT	OSSIPEE - FREEDOM - EFFINGHAM	13901	2007	ROW		SPUR OF OSSIPEE LAKE TRAIL: CONSTRUCT A 0.3 MILE FACILITY WITH A BIKE/PED UNDERPASS. THIS SPUR WILL CONNECT TO 23 MILE OSSIPEE LAKE TRAIL, STATEWIDE BIKE ROUTE SYSTEM AND DOT PROPOSED OSSIPEE MULTI MODAL TRANSPORTATION FACILITY [02-49TE]
ATT	OSSIPEE - FREEDOM - EFFINGHAM	13901	2008	CON		SPUR OF OSSIPEE LAKE TRAIL: CONSTRUCT A 0.3 MILE FACILITY WITH A BIKE/PED UNDERPASS. THIS SPUR WILL CONNECT TO 23 MILE OSSIPEE LAKE TRAIL, STATEWIDE BIKE ROUTE SYSTEM AND DOT PROPOSED OSSIPEE MULTI MODAL TRANSPORTATION FACILITY [02-49TE]
E-51	PELHAM	14491	2007	PE	NH 111A	IMPROVEMENTS TO TWO INTERSECTIONS: MAIN STREET / NASHUA ROAD AND OLD BRIDGE STREET / COMMON STREET [Section 1702 - Designated Project; Demo Id NH055] [Sister Demo Id NH072]
E-51	PELHAM	14491	2008	PE	NH 111A	IMPROVEMENTS TO TWO INTERSECTIONS: MAIN STREET / NASHUA ROAD AND OLD BRIDGE STREET / COMMON STREET [Section 1702 - Designated Project; Demo Id NH055] [Sister Demo Id NH072]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-51	PELHAM	14491	2008	ROW	NH 111A	IMPROVEMENTS TO TWO INTERSECTIONS: MAIN STREET / NASHUA ROAD AND OLD BRIDGE STREET / COMMON STREET [Section 1702 - Designated Project; Demo Id NH055] [Sister Demo Id NH072]
E-51	PELHAM	14491	2010	CON	NH 111A	IMPROVEMENTS TO TWO INTERSECTIONS: MAIN STREET / NASHUA ROAD AND OLD BRIDGE STREET / COMMON STREET [Section 1702 - Designated Project; Demo Id NH055] [Sister Demo Id NH072]
ATT	PEMBROKE	14477A	2007	PE	US 3 / PEMBROKE HILL RD	INTERSECTION IMPROVEMENT PROJECT [Section 1702 - Designated Project; Demo Id NH042] [Sister Demo Id NH061]
ATT	PEMBROKE	14477A	2007	ROW	US 3 / PEMBROKE HILL RD	INTERSECTION IMPROVEMENT PROJECT [Section 1702 - Designated Project; Demo Id NH042] [Sister Demo Id NH061]
ATT	PEMBROKE	14477A	2008	PE	US 3 / PEMBROKE HILL RD	INTERSECTION IMPROVEMENT PROJECT [Section 1702 - Designated Project; Demo Id NH042] [Sister Demo Id NH061]
ATT	PEMBROKE	14477A	2008	ROW	US 3 / PEMBROKE HILL RD	INTERSECTION IMPROVEMENT PROJECT [Section 1702 - Designated Project; Demo Id NH042] [Sister Demo Id NH061]
ATT	PEMBROKE	14477A	2009	PE	US 3 / PEMBROKE HILL RD	INTERSECTION IMPROVEMENT PROJECT [Section 1702 - Designated Project; Demo Id NH042] [Sister Demo Id NH061]
ATT	PEMBROKE	14477A	2009	ROW	US 3 / PEMBROKE HILL RD	INTERSECTION IMPROVEMENT PROJECT [Section 1702 - Designated Project; Demo Id NH042] [Sister Demo Id NH061]
ATT	PEMBROKE	14477A	2010	CON	US 3 / PEMBROKE HILL RD	INTERSECTION IMPROVEMENT PROJECT [Section 1702 - Designated Project; Demo Id NH042] [Sister Demo Id NH061]
E-10	PETERBOROUGH		2007	PE	US 202	RECONSTRUCT FROM NH 101 NORTHERLY 2.5 MILES
E-10	PETERBOROUGH		2009	PE	US 202	RECONSTRUCT FROM NH 101 NORTHERLY 2.5 MILES
E-51	PETERBOROUGH		2010	PE	NH 101	RECONSTRUCT INTERSECTION @ NH 123/OLD STREET ROAD
E-10	PETERBOROUGH		2010	PE	US 202	RECONSTRUCT FROM NH 101 NORTHERLY 2.5 MILES
E-10	PETERBOROUGH		2010	ROW	US 202	RECONSTRUCT FROM NH 101 NORTHERLY 2.5 MILES
ATT	PINKHAMS GRANT	14564	2007	CON		CONSTRUCT PEDESTRIAN FOOTBRIDGE OVER ELLIS RIVER IN PINKHAM NOTCH (ADJACENT TO NH 16 BR# 065/073) FOR IMPROVED ACCESS TO WHITE MOUNTAIN NATIONAL FOREST [Section 117 - Designated Project; Demo Id NH034] [Sister Demo Id NH035]
ATT	PINKHAMS GRANT	14564A	2007	CON		CONSTRUCT PEDESTRIAN FOOTBRIDGE OVER ELLIS RIVER IN PINKHAM NOTCH (ADJACENT TO NH 16 BR# 065/073) FOR IMPROVED ACCESS TO WHITE MOUNTAIN NATIONAL FOREST [Section 117 - Designated Project; Demo Id NH035] [Sister Project - Demo Id NH034]
N/E	PLAISTOW	10044D	2007	CON	NH 125	RECONSTRUCT INTERSECTION OF OLD COUNTY ROAD
E-51	PLAISTOW	13803	2007	PE	NH 125	WIDENING FOR CENTER TURN LANES FROM THE MASSACHUSETTS S/L TO WESTVILLE BRIDGE
E-51	PLAISTOW	13803	2007	ROW	NH 125	WIDENING FOR CENTER TURN LANES FROM THE MASSACHUSETTS S/L TO WESTVILLE BRIDGE
E-51	PLAISTOW	13803	2007	CON	NH 125	WIDENING FOR CENTER TURN LANES FROM THE MASSACHUSETTS S/L TO WESTVILLE BRIDGE

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	PLAISTOW - KINGSTON	10044B	2007	PE	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2007	PE	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 ± 1.00 Hz to NH 125 & Main Street intersection in Kingston
N/E	PLAISTOW - KINGSTON	10044B	2007	ROW	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2007	ROW	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 ± 1.00 mile to NH 125 & main street intersection in Kingston
N/E	PLAISTOW - KINGSTON	10044B	2008	PE	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. $6.0\pm$ MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2008	PE	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. $6.0\pm$ MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2008	ROW	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 ± 1.00 mile to NH 125 & main street intersection in Kingston
N/E	PLAISTOW - KINGSTON	10044B	2008	ROW	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2009	ROW	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2009	ROW	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2010	CON	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2010	CON	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2011	CON	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 ± 1.00 mile to NH 125 & main street intersection in Kingston
N/E	PLAISTOW - KINGSTON	10044B	2012	CON	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. $6.0\pm$ MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044B	2013	CON	NH 125	RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON
N/E	PLAISTOW - KINGSTON	10044E	2008	CON	NH 125	RECONSTRUCT INTERSECTION OF ROADSTONE DRIVE AND CONSTRUCT EXTENSION OF KINGSTON ROAD
N/E	PLAISTOW - KINGSTON	10044E	2008	CON	NH 125	RECONSTRUCT INTERSECTION OF ROADSTONE DRIVE AND CONSTRUCT EXTENSION OF KINGSTON ROAD
N/E	PLAISTOW, NH to HAVERHILL, MA	13515	2007	PE		CONSTRUCT RAIL PLATFORM & PROVIDE THREE YEARS OF OPERATING SUBSIDY FOR PASSENGER RAIL [00-20CM]
N/E	PLAISTOW, NH to HAVERHILL, MA	13515	2009	CON		CONSTRUCT RAIL PLATFORM & PROVIDE THREE YEARS OF OPERATING SUBSIDY FOR PASSENGER RAIL [00-20CM]
ATT	PLYMOUTH	14416	2007	CON	NEWPORT ROAD	PLYMOUTH SENIOR CENTER: PHASE 2 - RENOVATE 2ND FLOOR OF THE FORMER B&M RAILROAD STATION CURRENTLY USED AS A REGIONAL SENIOR CENTER, A SCHEDULED STOP FOR THE HOBO RR AND MUSEUM FOR RAILROAD HISTORY IN THE AREA [04-52TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-51	PORTSMOUTH		2007	PE	US 1	INTERSECTION @ CONSTITUTION AVE AND ROADWAY IMPROVEMENTS
E-51	PORTSMOUTH		2007	ROW	US 1	INTERSECTION @ CONSTITUTION AVE AND ROADWAY IMPROVEMENTS
E-10	PORTSMOUTH		2008	PE	US 1	RECONSTRUCT FROM WILSON ROAD TO CONSTITUTION AVE
E-51	PORTSMOUTH		2008	ROW	US 1	INTERSECTION @ CONSTITUTION AVE AND ROADWAY IMPROVEMENTS
E-10	PORTSMOUTH		2009	ROW	US 1	RECONSTRUCT FROM WILSON ROAD TO CONSTITUTION AVE
E-19	PORTSMOUTH	10665	2007	PE	NH 33 (Old NH101)	REPLACE BRIDGE OVER B & M RR - 154/101
E-19	PORTSMOUTH	10665	2007	ROW	NH 33 (Old NH101)	REPLACE BRIDGE OVER B & M RR - 154/101
E-19	PORTSMOUTH	10665	2008	CON	NH 33 (Old NH101)	REPLACE BRIDGE OVER B & M RR - 154/101
E-33	PORTSMOUTH	12683	2007	CON	BICYCLE ROUTE	CREATE SAFE BICYCLE ROUTE FROM DOWNTOWN PORTSMOUTH TO BIKE / PED BRIDGE INTO PEASE INTERNATIONAL TRADEPORT [96-17TE]
E-19	PORTSMOUTH	12900	2007	PE	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	12900	2007	ROW	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	12900	2008	PE	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	12900	2008	ROW	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	12900	2009	PE	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	12900	2009	ROW	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	12900	2010	PE	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	12900	2010	ROW	US 1 BYPASS	RECONSTRUCT FROM TRAFFIC CIRCLE NORTH TO SARAH LONG BRIDGE INCLUDING BRIDGES 227/112, 211/114 & 205/116
E-19	PORTSMOUTH	13455	2007	PE	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106
E-19	PORTSMOUTH	13455	2007	ROW	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106
E-19	PORTSMOUTH	13455	2008	PE	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106
E-19	PORTSMOUTH	13455	2008	ROW	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106
E-19	PORTSMOUTH	13455	2009	PE	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106
E-19	PORTSMOUTH	13455	2009	ROW	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-19	PORTSMOUTH	13455	2010	PE	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106
E-19	PORTSMOUTH	13455	2010	ROW	US 1 BYPASS	RECONSTRUCT FROM SAGAMORE CREEK PROJECT TO TRAFFIC CIRCLE, INCLUDING BRIDGES 173/071, 183/087, 188/097, 189/100, 192/106
E-51	PORTSMOUTH	13516	2008	CON	WOODBURY AVE / MARKET STREET	SIGNAL COORDINATION ALONG WOODBURY AVE FROM I-95 INTERCHANGE TO GOSLING ROAD [00-21CM]
E-33	PORTSMOUTH	13903	2007	CON	BOW STREET	PISCATAQUA RIVERWALK: CONSTRUCT 400 LF OF PEDESTRIAN FACILITY AND PIER ALONG THE PISCATAQUA RIVER PARALLELING BOW STREET [02-53TE]
E-53	PORTSMOUTH	14368	2007	CON	I-95	INTERCHANGE IMPROVEMENTS @ MARKET STREET
E-33	PORTSMOUTH	14417	2008	PE	GRAFTON DRIVE	TRADE PORT MULTI-USE PATH - CONSTRUCT A MULTI USE PATH ALONG GRAFTON DR BETWEEN NH AVENUE AND PORTSMOUTH TRANSPORTATION CENTER, AND BETWEEN PEASE GOLF COURSE AND AIRPORT RD [04-54TE]
E-33	PORTSMOUTH	14417	2009	CON	GRAFTON DRIVE	TRADE PORT MULTI-USE PATH - CONSTRUCT A MULTI USE PATH ALONG GRAFTON DR BETWEEN NH AVENUE AND PORTSMOUTH TRANSPORTATION CENTER, AND BETWEEN PEASE GOLF COURSE AND AIRPORT RD [04-54TE]
N/E	PORTSMOUTH	14428	2007	CON	MARKET STREET EXTENSION	BIKE / PED PATH, BETWEEN MICHAEL SUCCI DRIVE AND THE NH PORT AUTHORITY [04-16CM]
E-19	PORTSMOUTH	14493	2007	PE	NH 1A	BRIDGE REHABILITATION OVER SAGAMORE CREEK - 198/034
E-19	PORTSMOUTH	14493	2008	PE	NH 1A	BRIDGE REHABILITATION OVER SAGAMORE CREEK - 198/034
E-19	PORTSMOUTH	14493	2009	PE	NH 1A	BRIDGE REHABILITATION OVER SAGAMORE CREEK - 198/034
E-19	PORTSMOUTH	14493	2009	ROW	NH 1A	BRIDGE REHABILITATION OVER SAGAMORE CREEK - 198/034
E-19	PORTSMOUTH, NH - KITTERY, ME	13678	2007	PE	US 1	REHABILITATE BRIDGE OVER PISCATAQUA RIVER - 247/084 (Memorial Bridge) & REPLACE SCOTT AVENUE BRIDGE - 246/083
E-19	PORTSMOUTH, NH - KITTERY, ME	13678	2008	PE	US 1	REHABILITATE BRIDGE OVER PISCATAQUA RIVER - 247/084 (Memorial Bridge) & REPLACE SCOTT AVENUE BRIDGE - 246/083
E-19	PORTSMOUTH, NH - KITTERY, ME	13678	2008	ROW	US 1	REHABILITATE BRIDGE OVER PISCATAQUA RIVER - 247/084 (Memorial Bridge) & REPLACE SCOTT AVENUE BRIDGE - 246/083
E-19	PORTSMOUTH, NH - KITTERY, ME	13678	2010	CON	US 1	REHABILITATE BRIDGE OVER PISCATAQUA RIVER - 247/084 (Memorial Bridge) & REPLACE SCOTT AVENUE BRIDGE - 246/083
N/E	ROCHESTER	10620D	2007	PE	SPAULDING TPK	CONSTRUCT 4 LANE TPK FROM EXIT 11/12 (NH 125) TO EXIT 16 (US 202) (PRELIMINARY ENGINEERING AND ROW ACQUISITIONS)
N/E	ROCHESTER	10620D	2007	ROW	SPAULDING TPK	CONSTRUCT 4 LANE TPK FROM EXIT 11/12 (NH 125) TO EXIT 16 (US 202) (PRELIMINARY ENGINEERING AND ROW ACQUISITIONS)
N/E	ROCHESTER	10620D	2008	PE	SPAULDING TPK	CONSTRUCT 4 LANE TPK FROM EXIT 11/12 (NH 125) TO EXIT 16 (US 202) (PRELIMINARY ENGINEERING AND ROW ACQUISITIONS)
N/E	ROCHESTER	10620D	2008	ROW	SPAULDING TPK	CONSTRUCT 4 LANE TPK FROM EXIT 11/12 (NH 125) TO EXIT 16 (US 202) (PRELIMINARY ENGINEERING AND ROW ACQUISITIONS)
N/E	ROCHESTER	10620D	2009	ROW	SPAULDING TPK	CONSTRUCT 4 LANE TPK FROM EXIT 11/12 (NH 125) TO EXIT 16 (US 202) (PRELIMINARY ENGINEERING AND ROW ACQUISITIONS)

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	ROCHESTER	10620G	2007	CON	SPAULDING TPK	CONSTRUCTION OF EXIT 11 & 12 (NH 125) BRIDGE - 158/110, AND 2nd BARREL - PHASE 1
N/E	ROCHESTER	10620Н	2008	CON	SPAULDING TPK	CONSTRUCTION OF 2nd BARREL THROUGH EXIT 13 - PHASE 2 - 139/094
N/E	ROCHESTER	10620Н	2008	CON	SPAULDING TPK	CONSTRUCTION OF 2nd BARREL THROUGH EXIT 13 - PHASE 2 - 139/094
N/E	ROCHESTER	10620Н	2009	CON	SPAULDING TPK	CONSTRUCTION OF 2nd BARREL THROUGH EXIT 13 - PHASE 2 - 139/094
N/E	ROCHESTER	10620Н	2009	CON	SPAULDING TPK	CONSTRUCTION OF 2nd BARREL THROUGH EXIT 13 - PHASE 2 - 139/094
N/E	ROCHESTER	10620I	2010	CON	SPAULDING TPK	CONSTRUCTION OF 2nd BARREL THROUGH EXIT 14 AND EXIT 15 - PHASE 3
N/E	ROCHESTER	10620Ј	2012	CON	SPAULDING TPK	CONSTRUCTION OF 2nd BARREL THROUGH EXIT 16 (Chestnut Hill Connector) - PHASE 4
N/E	ROCHESTER	10620Ј	2013	CON	SPAULDING TPK	CONSTRUCTION OF 2nd BARREL THROUGH EXIT 16 (Chestnut Hill Connector) - PHASE 4
N/E	ROCHESTER	10620K	2008	CON	SPAULDING TPK	EXIT 11 & 12 (NH 125) BRIDGE - 157/110, AND 2ND BARREL - PHASE 2
N/E	ROCHESTER	10620K	2008	CON	SPAULDING TPK	EXIT 11 & 12 (NH 125) BRIDGE - 157/110, AND 2ND BARREL - PHASE 2
N/E	ROCHESTER	10620K	2009	CON	SPAULDING TPK	EXIT 11 & 12 (NH 125) BRIDGE - 157/110, AND 2ND BARREL - PHASE 2
N/E	ROCHESTER	10620K	2009	CON	SPAULDING TPK	EXIT 11 & 12 (NH 125) BRIDGE - 157/110, AND 2ND BARREL - PHASE 2
N/E	ROCHESTER	10620L	2011	CON	SPAULDING TPK	CONSTRUCTION OF 2ND BARREL THROUGH EXIT 14 & 15 - PHASE 3, PART B
N/E	ROCHESTER	10620L	2013	CON	SPAULDING TPK	CONSTRUCTION OF 2ND BARREL THROUGH EXIT 14 & 15 - PHASE 3, PART B
E-51	ROCHESTER	14350	2007	PE	NH 202A (WALNUT STREET)	INTERSECTION IMPROVEMENTS TO IMPROVE SAFETY THROUGH STRAFFORD SQUARE, NORTH MAIN, & WASHINGTON STREETS
E-10	ROXBURY - SULLIVAN	10439	2007	PE	NH 9	RECONSTRUCT SHOULDERS & WIDEN FROM EAST SULLIVAN, SOUTH 2.04 MI; 093/061
E-10	ROXBURY - SULLIVAN	10439	2008	PE	NH 9	RECONSTRUCT SHOULDERS & WIDEN FROM EAST SULLIVAN, SOUTH 2.04 MI; 093/061
E-10	ROXBURY - SULLIVAN	10439	2008	ROW	NH 9	RECONSTRUCT SHOULDERS & WIDEN FROM EAST SULLIVAN, SOUTH 2.04 MI; 093/061
E-10	ROXBURY - SULLIVAN	10439	2009	PE	NH 9	RECONSTRUCT SHOULDERS & WIDEN FROM EAST SULLIVAN, SOUTH 2.04 MI; 093/061
E-10	ROXBURY - SULLIVAN	10439	2009	ROW	NH 9	RECONSTRUCT SHOULDERS & WIDEN FROM EAST SULLIVAN, SOUTH 2.04 MI; 093/061
E-10	ROXBURY - SULLIVAN	10439	2010	PE	NH 9	RECONSTRUCT SHOULDERS & WIDEN FROM EAST SULLIVAN, SOUTH 2.04 MI; 093/061
E-10	ROXBURY - SULLIVAN	10439	2010	ROW	NH 9	RECONSTRUCT SHOULDERS & WIDEN FROM EAST SULLIVAN, SOUTH 2.04 MI; 093/061
E-19	RYE	13269	2007	PE	NH 1A	REPLACE WOODEN BRIDGE OVER SEAVEY'S CREEK - 252/156, WITH WOODEN BRIDGE STRUCTURE
E-19	RYE	13269	2007	ROW	NH 1A	REPLACE WOODEN BRIDGE OVER SEAVEY'S CREEK - 252/156, WITH WOODEN BRIDGE STRUCTURE
E-19	RYE	13269	2008	PE	NH 1A	REPLACE WOODEN BRIDGE OVER SEAVEY'S CREEK - 252/156, WITH WOODEN BRIDGE STRUCTURE
E-19	RYE	13269	2008	ROW	NH 1A	REPLACE WOODEN BRIDGE OVER SEAVEY'S CREEK - 252/156, WITH WOODEN BRIDGE STRUCTURE

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-19	RYE	13269	2008	CON	NH 1A	REPLACE WOODEN BRIDGE OVER SEAVEY'S CREEK - 252/156, WITH WOODEN BRIDGE STRUCTURE
E-53	SALEM	12334	2007	PE	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET @ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-53	SALEM	12334	2007	ROW	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET $@$ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-53	SALEM	12334	2008	PE	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET @ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-53	SALEM	12334	2008	ROW	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET @ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-53	SALEM	12334	2009	PE	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET @ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-53	SALEM	12334	2009	ROW	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET @ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-53	SALEM	12334	2010	PE	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET @ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-53	SALEM	12334	2010	ROW	NH 28	RECONSTRUCT INTERSECTION, MAIN STREET @ DEPOT STREET, INCLUDING SIGNALS, LEFT TURN LANES & APPROACHES
E-51	SALEM	13518	2007	CON	PELHAM ROAD	SIGNAL COORDINATION FROM NORTH POLICY ROAD WEST TO STILES ROAD [00-24CM]
E-21	SALEM	14430A	2007	PE		TRANSIT SERVICE FOR EMPLOYEES IN THE REGION CONNECTING SALEM TO OTHER COMMUNITIES WITH THE GOAL OF FIXED ROUTE TRANSIT [Part of 04-20CM]
E-30	SALEM - DERRY		2007	UNK	TRANSIT	DEMAND-RESPONSE TRANSIT EXPANSION & COORDINATION
E-30	SALEM - DERRY		2007	UNK	TRANSIT	DEMAND-RESPONSE TRANSIT EXPANSION & COORDINATION
ATT	SALEM - MANCHESTER		2008	UNK	TRANSIT	CAPITAL
ATT	SALEM - MANCHESTER		2009	UNK	TRANSIT	CAPITAL
ATT	SALEM - MANCHESTER		2010	UNK	TRANSIT	CAPITAL
N/E	SALEM TO MANCHESTER	10418	2007	PE	I-93	I-93 RECONSTRUCTION AND MITIGATION
N/E	SALEM TO MANCHESTER	10418	2007	ROW	I-93	I-93 RECONSTRUCTION AND MITIGATION
N/E	SALEM TO MANCHESTER	10418	2008	ROW	I-93	I-93 RECONSTRUCTION AND MITIGATION
E-38	SALEM TO MANCHESTER	10418C	2007	PE	1-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]
E-38	SALEM TO MANCHESTER	10418C	2007	ROW	1-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-38	SALEM TO MANCHESTER	10418C	2008	PE	I-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]
E-38	SALEM TO MANCHESTER	10418C	2008	ROW	I-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]
E-38	SALEM TO MANCHESTER	10418C	2009	PE	I-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]
E-38	SALEM TO MANCHESTER	10418C	2009	ROW	I-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]
E-38	SALEM TO MANCHESTER	10418C	2010	PE	I-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]
E-38	SALEM TO MANCHESTER	10418C	2010	ROW	I-93	ENVIRONMENTAL IMPACT STUDY AND FINAL DESIGN FROM MASS S/L IN SALEM TO I-293 IN MANCHESTER [Section 1602 - Designated Project; Demo Id NH014] [Sister Demo Id NH029 & NH051/NH076 & NH052/NH068]
N/E	SALEM TO MANCHESTER	10418F	2012	CON	1-93	CONSTRUCTION OF WETLAND MITIGATION SITES IN ANTICIPATION OF WETLAND IMPACTS ASSOCIATED WITH FUTURE IMPROVEMENTS TO I-93 FROM SALEM TO MANCHESTER. INCLUDES: LONDONDERRY L-8, L-8 EXTENSION, L-12 SITES; & LONDONDERRY ADVANCE MITIGATION / WETLAND CREATION [
N/E	SALEM TO MANCHESTER	10418G	2007	CON	I-93	PARK & RIDE @ EXIT 2 (Salem) [Part of 04-33CM]
N/E	SALEM TO MANCHESTER	10418H	2010	CON	I-93	PARK & RIDE @ EXIT 3 (Windham) [Part of 04-33CM]
E-28	SALEM TO MANCHESTER	10418N	2007	CON	I-93	EXIT 5 BUS MAINTENANCE FACILITY & TERMINAL (Londonderry)[Part of 04-33CM]
E-34	SALEM TO MANCHESTER	10418W	2007	PE	I-93	WATER QUALITY STUDY [Section 1702 - Designated Project; Demo Id NH054]
E-34	SALEM TO MANCHESTER	10418W	2008	PE	I-93	WATER QUALITY STUDY [Section 1702 - Designated Project; Demo Id NH054]
E-34	SALEM TO MANCHESTER	10418W	2009	PE	I-93	WATER QUALITY STUDY [Section 1702 - Designated Project; Demo Id NH054]
N/E	SALEM TO MANCHESTER	10418Z	2007	CON	I-93	IMPLEMENTATION OF INCIDENT MANAGEMENT AND ITS TECHNOLOGIES FOR OVERALL CORRIDOR, TO IMPROVE EFFICIENCY BEFORE, DURING & AFTER I-93 CONSTRUCTION
ATT	SALEM TO MANCHESTER	13933*	2007	CON	I-93	RECONSTRUCT & WIDEN FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]
ATT	SALEM TO MANCHESTER	13933*	2008	CON	I-93	RECONSTRUCT & WIDEN FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]
ATT	SALEM TO MANCHESTER	13933*	2009	CON	I-93	RECONSTRUCT & WIDEN FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	SALEM TO MANCHESTER	13933*	2010	CON	I-93	RECONSTRUCT & WIDEN FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]
N/E	SALEM TO MANCHESTER	13933A	2010	CON	I-93	RECONSTRUCT & WIDEN MAINLINE FROM S/L TO EXIT 1 (Salem)
N/E	SALEM TO MANCHESTER	13933B	2007	CON	I-93	REPLACE CROSS STREET BRIDGE - 089/052, AND EXIT 1 EMBANKMENT (Salem)
N/E	SALEM TO MANCHESTER	13933C	2007	CON	I-93	EXIT 1: REPLACE RAMP BRIDGES & RECONSTRUCT RAMPS - 082/061, 083/061, 084/061 (Salem)
N/E	SALEM TO MANCHESTER	13933D	2009	CON	I-93	RECONSTRUCT & WIDEN MAINLINE BETWEEN EXIT 1 & 2 AND REPLACE BRIDGES OVER NH 38 - 073/063, 077/063 (Salem)
N/E	SALEM TO MANCHESTER	13933E	2009	CON	I-93	EXIT 2, REPLACE BRIDGES OVER PELHAM ROAD - 068/078 & 070/079 (Salem)
N/E	SALEM TO MANCHESTER	13933F	2010	CON	I-93	EXIT 2 INTERCHANGE (Windham)
N/E	SALEM TO MANCHESTER	13933G	2009	CON	I-93	MEDIAN WORK & REPLACE BROOKDALE ROAD BRIDGE - 058/089 (Salem)
N/E	SALEM TO MANCHESTER	13933Н	2007	CON	I-93	CONSTRUCT RELOCATED MAINLINE & NEW BRIDGES OVER NH 111A FROM BROOKDALE RD (approx) TO NH 111A (Salem-Windham)
N/E	SALEM TO MANCHESTER	13933I	2008	CON	I-93	EXIT 3 NH 111 BRIDGES AND NH 111 RELOCATION (Windham)
N/E	SALEM TO MANCHESTER	13933Ј	2011	CON	I-93	EXIT 3 INTERCHANGE - 134/101 & 135/090 (Windham)
N/E	SALEM TO MANCHESTER	13933K	2012	CON	I-93	RECONSTRUCT AND WIDEN MAINLINE NORTH OF EXIT 3 THROUGH WEIGH STATIONS - 096/163, 097/163, 099/160, 100/160 (Windham)
N/E	SALEM TO MANCHESTER	13933L	2009	CON	I-93	RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out)
N/E	SALEM TO MANCHESTER	13933L	2009	CON	I-93	RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out) [Section 1702 - Designated Project; Demo Id NH048] [Sister Demo Id NH066 & NH074]
N/E	SALEM TO MANCHESTER	13933L	2012	CON	I-93	RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out)
N/E	SALEM TO MANCHESTER	13933L	2013	CON	I-93	RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out)
N/E	SALEM TO MANCHESTER	13933L	2014	CON	I-93	RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out)
N/E	SALEM TO MANCHESTER	13933L	2015	CON	I-93	RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out)
N/E	SALEM TO MANCHESTER	13933L	2016	CON	I-93	RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out)
N/E	SALEM TO MANCHESTER	14800*	2007	CON	I-93	"DEBT SERVICE PROJECT" FOR: RECONSTRUCTION & WIDENING FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	SALEM TO MANCHESTER	14800*	2008	CON	I-93	"DEBT SERVICE PROJECT" FOR: RECONSTRUCTION & WIDENING FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]
N/E	SALEM TO MANCHESTER	14800*	2009	CON	I-93	"DEBT SERVICE PROJECT" FOR: RECONSTRUCTION & WIDENING FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]
N/E	SALEM TO MANCHESTER	14800*	2010	CON	I-93	"DEBT SERVICE PROJECT" FOR: RECONSTRUCTION & WIDENING FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]
N/E	SALEM TO MANCHESTER TO CONCORD	10418Z	2007	CON	I-93	IMPLEMENTATION OF INCIDENT MANAGEMENT AND ITS TECHNOLOGIES FOR OVERALL CORRIDOR, TO IMPROVE EFFICIENCY BEFORE, DURING & AFTER I-93 CONSTRUCTION, INCLUDES CMAQ APP [06-22CM]
E-33	SANDOWN	14418	2008	CON	NH 121A	TOWN CENTER SIDEWALKS ALONG EAST SIDE FROM SANDOWN ELEMENTARY SCHOOL TO SANDOWN DEPOT [04-56TE]
N/E	SEABROOK TO PORTSMOUTH	11151E	2007	CON	BLUE STAR TPK (I-95)	ITS DEPLOYMENT; ITS INITIATIVE ALLOWING FOR DEPLOYMENT OF CHANGEABLE MESSAGE BOARDS, HIGHWAY ADVISORY RADIO TO IMPROVE MOTORIST SAFETY AND AWARENESS [04-31CM]
N/E	SEABROOK TO PORTSMOUTH	11151E	2008	CON	BLUE STAR TPK (I-95)	ITS DEPLOYMENT; ITS INITIATIVE ALLOWING FOR DEPLOYMENT OF CHANGEABLE MESSAGE BOARDS, HIGHWAY ADVISORY RADIO TO IMPROVE MOTORIST SAFETY AND AWARENESS [04-31CM]
N/E	SEABROOK TO PORTSMOUTH	11151F	2007	CON	BLUE STAR TPK (I-95)	ITS DEPLOYMENT; ITS INITIATIVE ALLOWING FOR DEPLOYMENT OF CHANGEABLE MESSAGE BOARDS, HIGHWAY ADVISORY RADIO TO IMPROVE MOTORIST SAFETY AND AWARENESS
N/E	SEABROOK TO PORTSMOUTH	11151F	2008	CON	BLUE STAR TPK (I-95)	ITS DEPLOYMENT; ITS INITIATIVE ALLOWING FOR DEPLOYMENT OF CHANGEABLE MESSAGE BOARDS, HIGHWAY ADVISORY RADIO TO IMPROVE MOTORIST SAFETY AND AWARENESS
N/E	SEACOAST	06-25CM	2007	CON		SEACOAST COMMUTER OPTIONS - PROGRAM EXPANSION / ACCELERATED IMPLEMENTATION [06-25CM]
N/E	SEACOAST	06-25CM	2008	CON		SEACOAST COMMUTER OPTIONS - PROGRAM EXPANSION / ACCELERATED IMPLEMENTATION [06-25CM]
N/E	SEACOAST	06-25CM	2009	CON		SEACOAST COMMUTER OPTIONS - PROGRAM EXPANSION / ACCELERATED IMPLEMENTATION [06-25CM]
N/E	SEACOAST	14631	2007	PE	I-95	CONGESTION MITIGATION PROJECT TO INCLUDE THE INSTALLATION OF VARIOUS ITS DEVICES
N/E	SEACOAST	14631	2007	CON	I-95	CONGESTION MITIGATION PROJECT TO INCLUDE THE INSTALLATION OF VARIOUS ITS DEVICES
E-28	SOMERSWORTH	14419	2007	PE		RENOVATE THE HISTORIC B&M RAILROAD STATION 319 IN DOWNTOWN SOMERSWORTH CREATING A PUBLICLY ACCESSIBLE HISTORIC AREA & MULTI-MODAL TRANSPORTATION FOCAL POINT IN THE DOWNTOWN [04-59TE]
E-28	SOMERSWORTH	14419	2008	CON		RENOVATE THE HISTORIC B&M RAILROAD STATION 319 IN DOWNTOWN SOMERSWORTH CREATING A PUBLICLY ACCESSIBLE HISTORIC AREA & MULTI-MODAL TRANSPORTATION FOCAL POINT IN THE DOWNTOWN [04-59TE]
E-19	SOMERSWORTH, NH - BERWICK, ME	12228	2008	PE	NH 9	REHAB BRIDGE OVER SALMON FALLS RIVER - 101/114
E-19	SOMERSWORTH, NH - BERWICK, ME	12228	2008	ROW	NH 9	REHAB BRIDGE OVER SALMON FALLS RIVER - 101/114

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-19	SOMERSWORTH, NH - BERWICK, ME	12228	2010	CON	NH 9	REHAB BRIDGE OVER SALMON FALLS RIVER - 101/114
N/E	STATEWIDE	14354	2007	CON	MISCELLANEOUS	EXPANSION OF THE ALTERNATIVE FUEL VEHICLE PROJECT (AFVP) TO PROVIDE INCREMENTAL COSTS OF AFVS AND 80% INFRASTRUCTURE COSTS [04-05CM]
N/E	STATEWIDE	BET-ISU	2007	CON	TRAFFIC	INTERSECTION / SIGNAL UPGRADES @ VARIOUS LOCATIONS (Bureau of Traffic)[Id 3833]
E-19	STODDARD - ANTRIM - HILLSBOROUGH		2008	PE	NH 9	CAPACITY, SAFETY IMPROVEMENTS, & ACQUIRE CONTROLLED ACCESS R.O.W. FROM JUST EAST OF NH 123 TO WESTERLY END OF HILLSBOROUGH BYPASS TO IMPROVE ROADWAY GEOMETRICS AND ALIGNMENT (APPROX. 10 MILES)
E-19	STODDARD - ANTRIM - HILLSBOROUGH		2008	ROW	NH 9	CAPACITY, SAFETY IMPROVEMENTS, & ACQUIRE CONTROLLED ACCESS R.O.W. FROM JUST EAST OF NH 123 TO WESTERLY END OF HILLSBOROUGH BYPASS TO IMPROVE ROADWAY GEOMETRICS AND ALIGNMENT (APPROX. 10 MILES)
ATT	STRATFORD		2008	PE	US 3	RECONSTRUCTION & WIDENING FROM JUST NORTH OF HOLLOW ROAD (END OF PROJECT #13005A) NORTHERLY 6.0 MILES TO APPROXIMATELY OLD US 3
ATT	STRATFORD		2009	ROW	US 3	RECONSTRUCTION & WIDENING FROM JUST NORTH OF HOLLOW ROAD (END OF PROJECT #13005A) NORTHERLY 6.0 MILES TO APPROXIMATELY OLD US 3
ATT	STRATFORD	06-52TE	2007	CON		PHASE 3 - GRAND TRUNK RAILROAD STATION RESTORATION: CONTINUE WORK DONE IN PHASE 1 AND 2 ON RESTORING THE LATE 19TH CENTURY ITALIAN STYLE RAILROAD STATION. DEVELOP PLANS FOR REUSE OF BUILDING. [06-52TE]
ATT	STRATFORD	14420	2007	CON		RESTORATION AND RENOVATION OF HISTORIC STRATFORD GRAND TRUNK RR STATION [04-60TE]
ATT	SUTTON	14328B	2007	CON	I-89	INSTALLATION OF RWIS STATION AT THE SUTTON WELCOME CENTER
E-10	SUTTON - NEW LONDON		2010	PE	I-89	RECLAIM AND 5-1/2" HBP FROM EXIT 10 TO EXIT 11 (4 MILES) [4R]
E-33	SWANZEY	14421	2007	PE	ASHUELOT RAIL TRAIL	ASHUELOT RAIL TRAIL IMPROVEMENT - IMPROVE 13,000' OF RAIL TRAIL BY IMPROVING EXISTING RAIL ROAD BED TO A CRUSHED GRANITE HARD PACK SURFACE. INSTALL BIKE STORAGE FACILITY AT TOWN-OWNED TRAILHEAD PARKING AREA NEAR THE CRESSON COVERED BRIDGE [04-61TE]
E-33	SWANZEY	14421	2008	CON	ASHUELOT RAIL TRAIL	ASHUELOT RAIL TRAIL IMPROVEMENT - IMPROVE 13,000' OF RAIL TRAIL BY IMPROVING EXISTING RAIL ROAD BED TO A CRUSHED GRANITE HARD PACK SURFACE. INSTALL BIKE STORAGE FACILITY AT TOWN-OWNED TRAILHEAD PARKING AREA NEAR THE CRESSON COVERED BRIDGE [04-61TE]
E-45	TAMWORTH	06-53TE	2008	PE	NH 113	CONSTRUCT 4' PAVED SHOULDERS ON BOTH SIDES STARTING 10' SOUTH OF THE SOUTHERLY ENTRANCE TO THE TAMWORTH ELEMENTARY SCHOOL AND GOING 1,212 LF TO THE NORTH END OF THE BRIDGE OVER THE BEARCAMP RIVER. [06-53TE]
E-45	TAMWORTH	06-53TE	2008	ROW	NH 113	CONSTRUCT 4' PAVED SHOULDERS ON BOTH SIDES STARTING 10' SOUTH OF THE SOUTHERLY ENTRANCE TO THE TAMWORTH ELEMENTARY SCHOOL AND GOING 1,212 LF TO THE NORTH END OF THE BRIDGE OVER THE BEARCAMP RIVER. [06-53TE]
E-45	TAMWORTH	06-53TE	2010	CON	NH 113	CONSTRUCT 4' PAVED SHOULDERS ON BOTH SIDES STARTING 10' SOUTH OF THE SOUTHERLY ENTRANCE TO THE TAMWORTH ELEMENTARY SCHOOL AND GOING 1,212 LF TO THE NORTH END OF THE BRIDGE OVER THE BEARCAMP RIVER. [06-53TE]
ATT	TAMWORTH	14317	2007	CON		CHOCORUA VILLAGE INTERSECTION IMPROVEMENT PROJECT [Section 115 - Designated Project; Demo Id NH024] [Sister Project - Demo Id NH028]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	TAMWORTH	14317B	2007	CON		CHOCORUA VILLAGE INTERSECTION IMPROVEMENT PROJECT [Section 117 - Designated Project; Demo Id NH028] [Sister Project - Demo Id NH024]
ATT	TAMWORTH	14422	2007	CON	NH 16 / NH 113	PROVIDE CROSSWALKS AT INTERSECTION OF NH 16 AND NH 113 WITH INROAD SIGNAGE, TRAFFIC CALMING ISLANDS, PAINTED SIDEWALKS AND SIGNAGE TO DIRECT PEDESTRIANS TO CROSSWALKS. PROVIDE PARKING FOR BICYCLES, MOTORCYCLES, CARS AND TRUCKS [04-62TE]
ATT	TAMWORTH	14423	2008	PE	NH 113	PAVED SHOULDERS ON ROUTE 113 - CONSTRUCT 4' PAVED SHOULDERS ON BOTH SIDES OF NH113 STARTING IN TAMWORTH AT THE FOUR CORNERS TO PROJECT S-2487 (0.6 MILES), CONTINUING AT THE SOUTH END OF PROJECT S-2487 TO JUST SOUTH OF SOUTHEN ENTRANCE TO THE TAMWORTH ELEM
ATT	TAMWORTH	14423	2009	CON	NH 113	PAVED SHOULDERS ON ROUTE 113 - CONSTRUCT 4' PAVED SHOULDERS ON BOTH SIDES OF NH113 STARTING IN TAMWORTH AT THE FOUR CORNERS TO PROJECT S-2487 (0.6 MILES), CONTINUING AT THE SOUTH END OF PROJECT S-2487 TO JUST SOUTH OF SOUTHEN ENTRANCE TO THE TAMWORTH ELEM
E-6	TEMPLE		2010	PE	NH 101	REALIGNMENT OF 'S' CURVES EAST OF NH 45 (0.5 MILES)
E-45	TILTON - NORTHFIELD	06-55TE	2008	PE		MODIFICATIONS TO THE WINNIPESAUKEE RIVER TRAIL PHASE 2: CONSTRUCT A STEEL ARCH BRIDGE OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE]
E-45	TILTON - NORTHFIELD	06-55TE	2009	ROW		MODIFICATIONS TO THE WINNIPESAUKEE RIVER TRAIL PHASE 2: CONSTRUCT A STEEL ARCH BRIDGE OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE]
N/E	TROY	10434	2007	ROW	NH 12	BYPASS OF TROY VILLAGE 6.0 Km (Pe & Row)
N/E	TROY	10434	2008	ROW	NH 12	BYPASS OF TROY VILLAGE 6.0 Km (Pe & Row)
N/E	TROY	10434	2009	ROW	NH 12	BYPASS OF TROY VILLAGE 6.0 Km (Pe & Row)
N/E	TROY	10434	2013	PE	NH 12	BYPASS OF TROY VILLAGE 6.0 Km
N/E	TROY	10434	2013	ROW	NH 12	BYPASS OF TROY VILLAGE 6.0 Km
N/E	TROY	10434	2014	ROW	NH 12	BYPASS OF TROY VILLAGE 6.0 Km
N/E	TROY	10434A	2012	CON	NH 12 BYPASS	CONSTRUCTION OF BYPASS FROM MONADNOCK STREET NORTHERLY
N/E	TROY	10434A	2013	CON	NH 12 BYPASS	CONSTRUCTION OF BYPASS FROM MONADNOCK STREET NORTHERLY
N/E	TROY	10434B	2015	CON	NH 12 BYPASS	CONSTRUCTION OF BYPASS FROM MONADNOCK STREET SOUTHERLY
E-45	WAKEFIELD	06-57TE	2007	PE		SANBORNVILLE / PAUL SCHOOL SIDEWALK PROJECT: CONSTRUCT 3,740 LF OF 5' WIDE PEDESTRIAN / BICYCLE WAYS THAT LINK THE ELEMENTARY / MIDDLE SCHOOL WITH THE ADJACENT NEIGHBORHOODS AND TOWN CENTER. [06-57TE]
E-45	WAKEFIELD	06-57TE	2008	PE		SANBORNVILLE / PAUL SCHOOL SIDEWALK PROJECT: CONSTRUCT 3,740 LF OF 5' WIDE PEDESTRIAN / BICYCLE WAYS THAT LINK THE ELEMENTARY / MIDDLE SCHOOL WITH THE ADJACENT NEIGHBORHOODS AND TOWN CENTER. [06-57TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
E-45	WAKEFIELD	06-57TE	2009	ROW		SANBORNVILLE / PAUL SCHOOL SIDEWALK PROJECT: CONSTRUCT 3,740 LF OF 5' WIDE PEDESTRIAN / BICYCLE WAYS THAT LINK THE ELEMENTARY / MIDDLE SCHOOL WITH THE ADJACENT NEIGHBORHOODS AND TOWN CENTER. [06-57TE]
E-45	WAKEFIELD	06-57TE	2010	CON		SANBORNVILLE / PAUL SCHOOL SIDEWALK PROJECT: CONSTRUCT 3,740 LF OF 5' WIDE PEDESTRIAN / BICYCLE WAYS THAT LINK THE ELEMENTARY / MIDDLE SCHOOL WITH THE ADJACENT NEIGHBORHOODS AND TOWN CENTER. [06-57TE]
ATT	WALPOLE - CHARLESTOWN	14747	2007	PE	NH 12	RECONSTRUCTION FROM MAIN STREET IN WALPOLE TO NH 12A IN CHARLESTOWN, REMOVE CONCRETE BASE, ADD SHOULDERS AND IMPROVE DRAINAGE
ATT	WALPOLE - CHARLESTOWN	14747	2008	PE	NH 12	RECONSTRUCTION FROM MAIN STREET IN WALPOLE TO NH 12A IN CHARLESTOWN, REMOVE CONCRETE BASE, ADD SHOULDERS AND IMPROVE DRAINAGE
ATT	WALPOLE - CHARLESTOWN	14747	2008	ROW	NH 12	RECONSTRUCTION FROM MAIN STREET IN WALPOLE TO NH 12A IN CHARLESTOWN, REMOVE CONCRETE BASE, ADD SHOULDERS AND IMPROVE DRAINAGE
ATT	WALPOLE - CHARLESTOWN	14747	2009	PE	NH 12	RECONSTRUCTION FROM MAIN STREET IN WALPOLE TO NH 12A IN CHARLESTOWN, REMOVE CONCRETE BASE, ADD SHOULDERS AND IMPROVE DRAINAGE
ATT	WALPOLE - CHARLESTOWN	14747	2009	ROW	NH 12	RECONSTRUCTION FROM MAIN STREET IN WALPOLE TO NH 12A IN CHARLESTOWN, REMOVE CONCRETE BASE, ADD SHOULDERS AND IMPROVE DRAINAGE
ATT	WALPOLE - CHARLESTOWN	14747	2010	ROW	NH 12	RECONSTRUCTION FROM MAIN STREET IN WALPOLE TO NH 12A IN CHARLESTOWN, REMOVE CONCRETE BASE, ADD SHOULDERS AND IMPROVE DRAINAGE
E-19	WALPOLE, NH - BELLOWS FALLS, VT	12905	2007	PE	BRIDGE STREET	VILAS BRIDGE REHABILITATION OVER CONNECTICUT RIVER - 062/052
E-19	WALPOLE, NH - BELLOWS FALLS, VT	12905	2008	PE	BRIDGE STREET	VILAS BRIDGE REHABILITATION OVER CONNECTICUT RIVER - 062/052
E-19	WALPOLE, NH - BELLOWS FALLS, VT	12905	2009	PE	BRIDGE STREET	VILAS BRIDGE REHABILITATION OVER CONNECTICUT RIVER - 062/052
E-19	WALPOLE, NH - BELLOWS FALLS, VT	12905	2009	ROW	BRIDGE STREET	VILAS BRIDGE REHABILITATION OVER CONNECTICUT RIVER - 062/052
E-10	WARNER		2010	PE	I-89	1" OVERLAY FROM EXIT 8 TO EXIT 9 (4 MILES) [4R]
E-10	WARNER - SUTTON		2010	PE	I-89	RECLAIM AND 6-1/2" HBP FROM EXIT 9 TO EXIT 10 (7 MILES) [4R]
ATT	WARNER - SUTTON	14511	2007	PE	I-89	4R TREATMENT FIRST 3 MI AND COLD PLANE AND INLAY REMAINING 13.6 MILE TRAVELED WAY PAVEMENT ONLY, BEGIN AT EXIT 7 AND PROCEED 17.6 MILES NORTH TO EXIT 11
ATT	WARNER - SUTTON	14511	2008	CON	I-89	4R TREATMENT FIRST 3 MI AND COLD PLANE AND INLAY REMAINING 13.6 MILE TRAVELED WAY PAVEMENT ONLY, BEGIN AT EXIT 7 AND PROCEED 17.6 MILES NORTH TO EXIT 11
N/E	WHITEFIELD		2009	UNK	MT. WASHINGTON AIRPORT	SNOW REMOVAL EQUIPMENT STORAGE BUILDING
ATT	WHITEFIELD	14425	2007	PE	US 3	UPGRADE DRAINAGE & SIDEWALKS ON US 3 - UPGRADE 1200' OF SIDEWALKS, CURBING & SWALE. UPGRADE 1600' DRAINAGE PIPE & INSTALL 17 NEW CATCH BASINS [04-66TE]
ATT	WHITEFIELD	14425	2007	CON	US 3	UPGRADE DRAINAGE & SIDEWALKS ON US 3 - UPGRADE 1200' OF SIDEWALKS, CURBING & SWALE. UPGRADE 1600' DRAINAGE PIPE & INSTALL 17 NEW CATCH BASINS [04-66TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
ATT	WHITEFIELD	P2953	2007	CON	US 3	RECONSTRUCT FROM CARROLL T/L NORTH 2.1 MILES [Section 1602 - Designated Project; Demo Id NH012]
E-33	WILTON	13906	2007	CON		REDESIGN & INSTALL NEW DOWNTOWN SIDEWALK SYSTEM INCLUDING: IMPROVEMENTS TO EXISTING SIDEWALKS; ADDITIONAL SIDEWALKS TO ELIMINATE USE OF PAINTED LINES ALONG STREET SURFACES; CLEARLY DEFINED CROSSWALKS; TRAFFIC CALMING DEVISES - PEDESTRIAN CONTROLLED TR
E-6	WILTON - MILFORD - AMHERST - BEDFORD	13692	2007	PE	NH 101	SAFETY IMPROVEMENTS @ VARIOUS LOCATIONS FROM WILTON TO WALLACE RD IN BEDFORD AS DETERMINED BY CORRIDOR STUDY
E-6	WILTON - MILFORD - AMHERST - BEDFORD	13692	2007	ROW	NH 101	SAFETY IMPROVEMENTS @ VARIOUS LOCATIONS FROM WILTON TO WALLACE RD IN BEDFORD AS DETERMINED BY CORRIDOR STUDY
E-6	WILTON - MILFORD - AMHERST - BEDFORD	13692	2008	PE	NH 101	SAFETY IMPROVEMENTS @ VARIOUS LOCATIONS FROM WILTON TO WALLACE RD IN BEDFORD AS DETERMINED BY CORRIDOR STUDY
E-6	WILTON - MILFORD - AMHERST - BEDFORD	13692	2008	ROW	NH 101	SAFETY IMPROVEMENTS @ VARIOUS LOCATIONS FROM WILTON TO WALLACE RD IN BEDFORD AS DETERMINED BY CORRIDOR STUDY
E-6	WILTON - MILFORD - AMHERST - BEDFORD	13692	2009	PE	NH 101	SAFETY IMPROVEMENTS @ VARIOUS LOCATIONS FROM WILTON TO WALLACE RD IN BEDFORD AS DETERMINED BY CORRIDOR STUDY
E-6	WILTON - MILFORD - AMHERST - BEDFORD	13692	2010	PE	NH 101	SAFETY IMPROVEMENTS @ VARIOUS LOCATIONS FROM WILTON TO WALLACE RD IN BEDFORD AS DETERMINED BY CORRIDOR STUDY
E-10	WINCHESTER		2010	PE	NH 10	RECONSTRUCT / REHABILITATE FROM MASS S/L TO NH 119 (MANNING HILL) 5.1 MILES
E-10	WINCHESTER		2010	ROW	NH 10	RECONSTRUCT / REHABILITATE FROM MASS S/L TO NH 119 (MANNING HILL) 5.1 MILES
E-19	WINCHESTER	12906	2007	PE	NH 10	BRIDGE REPLACEMENT OVER ASHUELOT RIVER - 152/181
E-19	WINCHESTER	12906	2007	ROW	NH 10	BRIDGE REPLACEMENT OVER ASHUELOT RIVER - 152/181
E-19	WINCHESTER	12906	2009	ROW	NH 10	BRIDGE REPLACEMENT OVER ASHUELOT RIVER - 152/181
E-45	WINDHAM	06-59TE	2007	PE		REHABILITATE WINDHAM DEPOT AS VISITORS CENTER / MUSEUM / WAY STATION ON SALEM - CONCORD BIKEWAY / RAIL TRAIL: ALSO MAKE IMPROVEMENTS TO PARKING AREAS. [06-59TE]
E-45	WINDHAM	06-59TE	2008	PE		REHABILITATE WINDHAM DEPOT AS VISITORS CENTER / MUSEUM / WAY STATION ON SALEM - CONCORD BIKEWAY / RAIL TRAIL: ALSO MAKE IMPROVEMENTS TO PARKING AREAS. [06-59TE]
E-45	WINDHAM	06-59TE	2009	ROW		REHABILITATE WINDHAM DEPOT AS VISITORS CENTER / MUSEUM / WAY STATION ON SALEM - CONCORD BIKEWAY / RAIL TRAIL: ALSO MAKE IMPROVEMENTS TO PARKING AREAS. [06-59TE]
E-45	WINDHAM	06-59TE	2010	CON		REHABILITATE WINDHAM DEPOT AS VISITORS CENTER / MUSEUM / WAY STATION ON SALEM - CONCORD BIKEWAY / RAIL TRAIL: ALSO MAKE IMPROVEMENTS TO PARKING AREAS. [06-59TE]
E-33	WINDHAM	13113	2007	PE	SOUTH LOWELL RD	PHASE 1 TO CONSTRUCT SHARED ROADWAY BICYCLE LANE - 2.1 MILES [98-03TE]
E-33	WINDHAM	13113	2007	ROW	SOUTH LOWELL RD	PHASE 1 TO CONSTRUCT SHARED ROADWAY BICYCLE LANE - 2.1 MILES [98-03TE]
E-33	WINDHAM	13113	2008	CON	SOUTH LOWELL RD	PHASE 1 TO CONSTRUCT SHARED ROADWAY BICYCLE LANE - 2.1 MILES [98-03TE]

CAA Code	Town	State Project #	FY	Phase	Route/Road	ScopeOfWork
N/E	WINDHAM - SALEM	10075	2011	PE	NH 111 BYPASS	CONSTRUCT BYPASS AROUND SHADOW LAKE. NH 28 FROM LAKE STREET TO JONES ROAD [Pe & Row Only]
N/E	WINDHAM - SALEM	10075	2011	ROW	NH 111 BYPASS	CONSTRUCT BYPASS AROUND SHADOW LAKE. NH 28 FROM LAKE STREET TO JONES ROAD [Pe & Row Only]
N/E	WINDHAM - SALEM	10075A	2013	PE	NH 111	RECONSTRUCTION & SIGNALIZATION @ NORTH POLICY ROAD
N/E	WINDHAM - SALEM	10075A	2014	ROW	NH 111	RECONSTRUCTION & SIGNALIZATION @ NORTH POLICY ROAD
N/E	WINDHAM - SALEM	10075A	2016	CON	NH 111	RECONSTRUCTION & SIGNALIZATION @ NORTH POLICY ROAD
N/E	WINDHAM - SALEM	10075F	2013	CON	NH 28 / NH 111	RECONSTRUCTION OF INTERSECTION @ LAKE STREET AND SHADOW LAKE ROAD
E-42	WINDHAM - SALEM	10075K	2008	CON	NH 111	LANDSCAPING
ATT	WOLFEBORO	13954	2007	PE	NH 28	IMPROVE ROADWAY, INTERSECTIONS, AND DRAINAGE FROM THE ALTON T/L TO WOLFEBORO FALLS
ATT	WOLFEBORO	13954	2007	ROW	NH 28	IMPROVE ROADWAY, INTERSECTIONS, AND DRAINAGE FROM THE ALTON T/L TO WOLFEBORO FALLS
ATT	WOLFEBORO	13954	2010	ROW	NH 28	IMPROVE ROADWAY, INTERSECTIONS, AND DRAINAGE FROM THE ALTON T/L TO WOLFEBORO FALLS
ATT	WOODSTOCK		2009	PE	US 3	SAFETY AND PAVEMENT IMPROVEMENTS TO UPGRADE US 3
ATT	WOODSTOCK		2010	PE	US 3	SAFETY AND PAVEMENT IMPROVEMENTS TO UPGRADE US 3
ATT	WOODSTOCK		2010	ROW	US 3	SAFETY AND PAVEMENT IMPROVEMENTS TO UPGRADE US 3
ATT	WOODSTOCK	14773	2007	PE	1-93	NB NON MEDIAN SIDE & SB MEDIAN SIDE ROCK CUT 004R MAINTAIN & REPLACE EXIST MECHANICAL ROCK STABILIZATION MEASURES
ATT	WOODSTOCK	14773	2009	CON	I-93	NB NON MEDIAN SIDE & SB MEDIAN SIDE ROCK CUT 004R MAINTAIN & REPLACE EXIST MECHANICAL ROCK STABILIZATION MEASURES

Exhibit 5.
Approved 2006 round of CMAQ/TE projects

Ten Year Transportation Improvement Program 2007-2016

Approved 2006 Round CMAQ Projects

05-Oct-2006

Project Name/#	Route/Road:	Location; Scope of Work	\$(1	M)	Comments:
CONCORD 06-02CM	STORRS STREET	PARK AND RIDE			Approved 2006 Application!
		C 2011 L400 - CONGESTION MITIGATION & AIR QUA	LITY IMPRO	.900	
			Subtotal:	.900	
		P 2009 L400 - CONGESTION MITIGATION & AIR QUA	LITY IMPRO	.150	
			Subtotal:	.150	
		r 2010 L400 - CONGESTION MITIGATION & AIR QUA	LITY IMPRO 1	.300	
				.300	
				2.350	
DOVER - PORTSMOUTH - BOSTON 06-05CM		INCREASED TRANSIT SERVICE AND INTERCITY BUS MARKETING CAMPAIGN FOR CORRIDORS [06-05CM & 06-23CM]	NH 16 / I-95		Approved 2006 Application!
		C 2007 L400 - CONGESTION MITIGATION & AIR QUA	LITY IMPRO 1	.470	
			Subtotal: 1	.470	
		P 2007 L400 - CONGESTION MITIGATION & AIR QUA	LITY IMPRO	.300	
			Subtotal:	.300	
			Total: 1	.770	
DURHAM 13867	main street	RECONSTRUCT MAIN ST TO PERMIT BI-DIRECTION TRANSIT SHUTTLE SERVICE / PR BIKE/PED SAFETY IMPROVEMENTS FROM WESTERN EDGE OF CAMPUS TO DOWI BROOK LANE [02-07CM] & LIGHTING [06-29CM]			Combined with 06-29CM (Lighting). Selection Amount includes both 2002 & 2006 Apps and approved by CMAQ Advisory Committee 3-17-06.
		C 2007 L400 - CONGESTION MITIGATION & AIR QUA	LITY IMPRO	.304	
		C 2007 L400 - CONGESTION MITIGATION & AIR QUA	LITY IMPRO 1	.490	
			Subtotal: 1	.794	
			Total:	.794	

Project Name/#	Route/Road:	Location; Scope of Work		\$(M)	Comments:
GREENLAND 06-08CM		TRUCKSTOP ELECTRIFICATION			Approved 2006 Application!
		C 2010 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	.828	
			Subtotal:	.828	
		P 2007 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	.006	
			Subtotal:	.006	
		R 2008 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	.001	
			Subtotal:	.001	
			Total:	.835	
HUDSON 06-10CM		TRAFFIC SIGNAL COORDINATION SY	STEM PHASE II [06-10CM]		Approved 2006 Application
		C 2010 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	.100	
			Subtotal:	.100	
		P 2007 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	.049	
			Subtotal:	.049	
		R 2008 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	.001	
			Subtotal:	.001	
			Total:	.150	
MANCHESTER 06-12CM		INCREASED TRANSIT SERVICE [06-120	CM]		Approved 2006 Application
		C 2009 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	1.445	
			Subtotal:	1.445	
			Total:	1.445	
NASHUA 06-13CM		INCREASED TRANSIT SERVICE [06-130	CM]		Approved 2006 Application
		C 2009 L4	00 - CONGESTION MITIGATION & AIR QUALITY IMPRO	.913	
			Subtotal:	.913	
			Total:	.913	

Project Name/#	Route/Road:	Location; Scope of Work	\$(M)	Comments:
SALEM TO MANCHESTER TO CONCORD 10418Z	I-93	IMPLEMENTATION OF INCIDENT MANAGEMENT AND ITS TEC IMPROVE EFFICIENCY BEFORE, DURING & AFTER I-93 CONST		CMAQ App [06-22CM] is a subset of this project. Includes \$2,339,843 of additional funds in addition to CMAQ funding.
		C 2007 L010 - INTERSTATE MAINTE	NANCE .400	
		C 2007 L010 - INTERSTATE MAINTE	NANCE .800	
		C 2007 L400 - CONGESTION MITTO	GATION & AIR QUALITY IMPRO 2.700	
			Subtotal: 3.900	
			Total: 3.900	
SEACOAST 06-25CM		SEACOAST COMMUTER OPTIONS - PROGRAM EXPANSION , 25CM]	ACCELERATED IMPLEMENTATION [06-	Approved 2006 Application
		C 2007 L400 - CONGESTION MITTO	GATION & AIR QUALITY IMPRO .100	
		C 2008 L400 - CONGESTION MITTO	GATION & AIR QUALITY IMPRO .100	
		C 2009 L400 - CONGESTION MITTO	GATION & AIR QUALITY IMPRO .100	
			Subtotal: .300	
			Total: .300	
STATEWIDE 06-27CM		TRAFFIC SIGNAL OPTIMIZATION - NON-ATTAINMENT TOWNS	ONLY [06-27CM]	Approved 2006 Application
		C 2009 L400 - CONGESTION MITTO	GATION & AIR QUALITY IMPRO .100	
			Subtotal: .100	
		P 2007 L400 - CONGESTION MITTO	GATION & AIR QUALITY IMPRO .100	
		P 2008 L400 - CONGESTION MITIG	GATION & AIR QUALITY IMPRO .100	
			Subtotal: .200	
			Total: .300	

 $Rpt10y_2k:\ rpt10YrRptAlpha_CMAQ_2006_Approved$

Phase:

Ten Year Transportation Improvement Program 2007-2016

Approved 2006 Round TE Projects

05-Oct-2006

Project Name/#	Route/Road:	Location; Scope of Work	\$((M)	Comments:
AMHERST 06-01TE		TOWN HALL BEAUTIFICATION AND SAFETY: ADD GREEN SPACE IMMEDIATELY IN FROI HALL AND IN FRONT OF THE ADJOINING OLD BURIAL GROUNDS. IMPROVE PEDESTRI, TO REDUCE PAVED SURFACES WHICH WILL REDUCE STORM WATER RUNOFF. [06-01TE]	an Safety A		
		C 2010 L220 - STP - TRANSPORTATION ENHANCEMENT		.245	
		Su	ubtotal:	.245	
		P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT		.015	
		Su	ubtotal:	.015	
		R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT		.001	
		Su	ubtotal:	.001	
			Total:	.261	
WILMOT - DANBURY 06-02TE		CORRIDOR FROM DANBURY THROUGH WILMOT AND ENDING IN ANDOVER. APPROMILES IN LENGTH. [06-02TE]	XIMATELY 8.	.3	
		C 2010 L220 - STP - TRANSPORTATION ENHANCEMENT		.224	
		Su	ubtotal:	.224	
		P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT		.033	
		Su	ubtotal:	.033	
		R 2008 L220 - STP - TRANSPORTATION ENHANCEMENT		.001	
		Su	ubtotal:	.001	
			Total:	.258	
ANTRIM 06-03TE	US 202 / NH 31 MAIN STREET	REHABILITATION PHASE 2: CONTINUE EXISTING PROJECT TO RECONSTRUCT SIDEWAL AND DRAINAGE TO IMPROVE THE DOWNTOWN PEDESTRIAN FACILITIES AND COMPLE CALMING AND PEDESTRIAN FLOW IMPROVEMENTS. [06-03TE]		ERS	
		C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT		.337	
		Su	ubtotal:	.337	
		P 2007 L220 - STP - TRANSPORTATION ENHANCEMENT		.040	
		P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT		.026	
			ubtotal:	.066	
		R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT		.004	
		Su	ubtotal:	.004	
			Total:	.407	

Project Name/#	Route/Road:	Location; Scope of Work		\$(M)	Comments:
BELMONT 06-06TE		PHASE 2, LAKE WINNISQUAM SCENIC TRAIL: CONSTRUCT HARD PACK GRAV FROM US 3 IN BELMONT TO JEFFERSON ROAD IN BELMONT [06-06TE]	/EL SURFACE, 8' W	/IDE	
		C 2011 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.350	
			Subtotal:	.350	
		P 2008 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.050	
		P 2009 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.036	
			Subtotal:	.086	
		R 2009 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.001	
			Subtotal:	.001	
			Total:	.437	
CONWAY 06-11TE	NH 16	VILLAGE STREETSCAPE PROJECT: REDESIGN WORK INCLUDES SIDEWALK UPOUT UTILITY RELOCATION, LANDSCAPING, LIGHTING, AND GATEWAY MARKERS [0		/ALKS,	
		C 2009 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.386	
			Subtotal:	.386	
		P 2007 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.135	
		P 2008 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.071	
			Subtotal:	.206	
			Total:	.592	
GILFORD 06-16TE	ALVAH WILSON ROAD	VILLAGE SIDEWALK PHASE 4: CONSTRUCT SIDEWALK. THIS SIDEWALK WILL C SCHOOLS TO THE EXISTING VILLAGE SIDEWALKS. [06-16TE]	ONNECT ALL THE	GILFORD	
		C 2010 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.158	
			Subtotal:	.158	
		P 2007 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.009	
			Subtotal:	.009	
		R 2008 L220 - STP - TRANSPORTATION ENHANCEM	ENT	.001	
			Subtotal:	.001	
			Total:	.168	

 $Rpt10y_2k: \ rpt10YrRptAlpha_TE_2006_Approved$

Project Name/#	Route/Road:	Location; Scope of W	Vork			\$(M)	Comments:	
KEENE 06-20TE	CHESHIRE RAIL TRAIL	CHESHIRE RAIL TRAIL IMPROVE EXISTING TRAIL SURFACE AND REPAIR DRAINAGE FROM PITCHER STREET TO BRADFORD ROAD AND FROM BRADFORD ROAD TO WHITCOMB'S MILL ROAD. ADD A TRAILHEAD AT WHITCOMB'S MILL ROAD. [06-20TE]						
		С	2010	L220 - STP - TRANSPORTATION ENHANCEMENT		.066		
					Subtotal:	.066		
		Р	2007	L220 - STP - TRANSPORTATION ENHANCEMENT		.010		
		Р	2008	L220 - STP - TRANSPORTATION ENHANCEMENT		.004		
					Subtotal:	.014		
		R	2008	L220 - STP - TRANSPORTATION ENHANCEMENT		.001		
					Subtotal:	.001		
					Total:	.081		
06-22TE		BELMONT TOWN LINE. [0	06-22TE]	rridor from main street in downtown lacc)nia io the			
		С	2011	L220 - STP - TRANSPORTATION ENHANCEMENT		.390		
					Subtotal:	.390		
		Р	2008	L220 - STP - TRANSPORTATION ENHANCEMENT		.040		
		Р	2009	L220 - STP - TRANSPORTATION ENHANCEMENT		.019		
					Subtotal:	.059		
		R	2009	L220 - STP - TRANSPORTATION ENHANCEMENT		.001		
					Subtotal:	.001		
					Total:	.449		
LANCASTER 06-24TE	US 2 AND MECHANIC STREET		RIVEWAY	ALK ON US 2 / US 3 AND 900 LF ON MECHANIC ST TIP-DOWNS. WIDEN TO 5' AND OVERLAY 460 LF C		-		
		С	2010	L220 - STP - TRANSPORTATION ENHANCEMENT		.184		
					Subtotal:	.184		
		Р	2007	L220 - STP - TRANSPORTATION ENHANCEMENT		.004		
		Р	2008	L220 - STP - TRANSPORTATION ENHANCEMENT		.001		
					Subtotal:	.005		
		R	2009	L220 - STP - TRANSPORTATION ENHANCEMENT		.001		
					Subtotal:	.001		
					Total:	.190		

Rpt10y_2k: rpt10YrRptAlpha_TE_2006_Approved

Project Name/#	Route/Road:	Location; Scope of V	Vork			\$(M)	Comments:
LITCHFIELD 06-26TE	ALBUQUERQUE AVENUE			COMPLETION: CONSTRUCT 0.85 MILES AND 0.95 UERQUE AVENUE. [06-26TE]	MILES OF PED	ESTRIAN	
		С	2011	L220 - STP - TRANSPORTATION ENHANCEMENT	Subtotal:	.450	
		Р	2007	L220 - STP - TRANSPORTATION ENHANCEMENT		.050	
		Р	2008	L220 - STP - TRANSPORTATION ENHANCEMENT	-	.030	
					Subtotal:	.080	
		R	2009	L220 - STP - TRANSPORTATION ENHANCEMENT	-	.010	
					Subtotal:	.010	
					Total:	.540	
MILFORD 06-28TE	SOUTH STREET	REVITALIZATION PLAN T	O IMPRO	ROJECT: CONSTRUCT THE PHASE 2 PORTION OF DVE OVERALL SAFETY, PHYSICAL / ADA ACCESSI IIC OF THE INTERSECTION. [06-28TE]			
		С	2010	L220 - STP - TRANSPORTATION ENHANCEMENT		.550	
					Subtotal:	.550	
		Р	2007	L220 - STP - TRANSPORTATION ENHANCEMENT	•	.050	
		Р	2008	L220 - STP - TRANSPORTATION ENHANCEMENT	•	.024	
					Subtotal:	.074	
		R	2009	L220 - STP - TRANSPORTATION ENHANCEMENT		.001	
					Subtotal:	.001	
					Total:	.625	
NASHUA 06-30TE			D CORR	MAIN STREET TO EAST HOLLIS STREET: PURCHASE PIDOR THAT INCORPORATES WALKING AND BIKIN PUTURE. [06-30TE]			
		R	2007	L220 - STP - TRANSPORTATION ENHANCEMENT		.453	
					Subtotal:	.453	
					Total:	.453	
NEW BOSTON 06-34TE				TRUCT STEEL TRUSS BRIDGE WITH A SPAN OF 1 10' CTED LEADING UP TO THE BRIDGE. [06-34TE]	AND A WIDT	H OF 6'. A	
		С	2010	L220 - STP - TRANSPORTATION ENHANCEMENT		.126	
					Subtotal:	.126	
		Р	2007	L220 - STP - TRANSPORTATION ENHANCEMENT		.015	
		Р	2008	L220 - STP - TRANSPORTATION ENHANCEMENT		.008	
					Subtotal:	.023	
		R	2009	L220 - STP - TRANSPORTATION ENHANCEMENT		.001	
					Subtotal:	.001	
					Total:	.150	

 $Rpt10y_2k: \ rpt10YrRptAlpha_TE_2006_Approved$

Phase: C =

C = Construction P = Preliminary Engineering

R = Right of Way

Project Name/#	Route/Road:	Location; Scope of Work	\$(M)	Comments:					
NEW CASTLE 06-35TE	NH 1B	CONSTRUCT SIDEWALK BETWEEN RESIDENTIAL NEIGHBORHOODS AND THE ELEMENTARY LF) AND BETWEEN THE GREAT COMMON (LIBRARY/PARK/BEACH) AND THE WENTWORTH LF). [06-35TE]							
		C 2010 L220 - STP - TRANSPORTATION ENHANCEMENT	.104						
		Subt	otal: .104						
		P 2007 L220 - STP - TRANSPORTATION ENHANCEMENT	.010						
		P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT	.005						
		Subt							
		R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT	.005						
		Subt							
		ī	otal: .124						
NEWBURY 06-38TE	NH 103	LAKE SUNAPEE WATERFRONT PEDESTRIAN IMPROVEMENTS: NH 103 SIDEWALK AND LIGHIMPROVEMENTS LINKING TOWN AMENITIES. [06-38TE]	KE SUNAPEE WATERFRONT PEDESTRIAN IMPROVEMENTS: NH 103 SIDEWALK AND LIGHTING PROVEMENTS LINKING TOWN AMENITIES. [06-38TE]						
		C 2010 L220 - STP - TRANSPORTATION ENHANCEMENT	.542						
		Subt	otal: .542						
		P 2007 L220 - STP - TRANSPORTATION ENHANCEMENT	.065						
		P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT	.035						
		Subt							
		R 2008 L220 - STP - TRANSPORTATION ENHANCEMENT	.001						
		Subt	otal: .001						
		т	otal: .643						
NEWPORT 06-40TE		HISTORIC PRESERVATION OF NATIONAL REGISTER RAIL BRIDGES: PROVIDE FIRE PROTEC EARLY TWENTIETH CENTURY WOODEN COVERED RAILROAD BRIDGES. [06-40TE]	TION FOR TWO						
		C 2008 L220 - STP - TRANSPORTATION ENHANCEMENT	.106						
		Subt	otal: .106						
		P 2007 L220 - STP - TRANSPORTATION ENHANCEMENT	.005						
		Subt	otal: .005						
		Т	otal: .111						

Rpt10y_2k: rpt10YrRptAlpha_TE_2006_Approved

NORTH-HAMPTON	Project Name/#	Route/Road:	Location; Scope of Work	\$(M)	Comments:
Subtotice Subt		NH 111		NH 111	
P 2007 1220 - SIP - TRANSPORTATION ENHANCEMENT					
P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT .0.04			Subtot	al: .126	
Subdoto Subd					
R 2009 1.220 - STP - TRANSPORTATION ENHANCEMENT 2.016					
SUBSTICATION FINANCE PHASE 3 - GRAND TRI UNIVERSIDE NO STATION RESTORATION: CONTINUE WORK DO DOTS IN PHASE 1 AND 2 ON RESTORING THE LATE 191H CENTURY TRAILANS STYLE RAILROAD STATION. DEVELOP PLANS FOR REUSE OF BUILDING. 106-527E 2007 1220 - STP - TRANSPORTATION ENHANCEMENT 101 10					
STRAITORD PHASE 3 - GRAND TRUNK RAIR OAD STATION RESTORATION: CONTINUE WORK DONE IN PHASE 1 AND 2 ON RESTORING THE LATE 19TH CENTURY ITALIAN STYLE RAIRCOAD STATION, DEVELOP PLANS FOR REUSE OF BUILDING; [06-52TE] 1.17 1.10 1.10 1					
Phase 3 - Grand Trunk Railroad Station Restoration: Continue work done in Phase 1 and 2 on Restoring the Late 19th Century Italian style Railroad Station. Develop Plans For Reuse of Building. 06-521E			Subtot	al: .010	
2 ON RESTORING THE LATE 1911 CENTURY ITALIAN STYLE RAILROAD STATION. DEVELOP PLANS FOR REUSE OF BUILDING. [06-52TE] 2007 1220 - STP - TRANSPORTATION ENHANCEMENT Subtoils (1.17) 1.17 1.10 1.10			Tot	al: .148	
Total			2 ON RESTORING THE LATE 19TH CENTURY ITALIAN STYLE RAILROAD STATION. DEVELOP PL		
Total:			C 2007 L220 - STP - TRANSPORTATION ENHANCEMENT	.117	
CONSTRUCT 4' PAVED SHOULDERS ON BOTH SIDES STARTING 10' SOUTH OF THE SOUTHERLY ENTRANCE TO THE TAMWORTH ELEMENTARY SCHOOL AND GOING 1,212 LF TO THE NORTH END OF THE BRIDGE OVER THE BEARCAMP RIVER. [06-53TE] C 2010 L220 - STP - TRANSPORTATION ENHANCEMENT SUbstitute L200 - STP - TRANSPORTATION ENHANCEMENT Substitute L200 - STP - TRANSPORTATION ENHANCEMENT L240 - STP - TRANSPORTATION ENHANCEMENT L240 - STP - TRANSPORTATION ENHANCEMENT L240 - SUbtotal: L240 - STP - TRANSPORTATION ENHANCEMENT L240 - SUbstitute L240 - SUbstitut			Subtot	al: .117	
10 THE TAMWORTH ELEMENTARY SCHOOL AND GOING 1,212 LF TO THE NORTH END OF THE BRIDGE OVER THE BEARCAMP RIVER. [06-53TE]			Tot	al: .117	
P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA O6-5STE OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA O6-5STE C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: .047		NH 113	TO THE TAMWORTH ELEMENTARY SCHOOL AND GOING 1,212 LF TO THE NORTH END OF THE		
P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: .006 R 2008 L220 - STP - TRANSPORTATION ENHANCEMENT Total: .001 Total: .001 Total: .005 WODIFICATIONS TO THE WINNIPESAUKEE RIVER TRAIL PHASE 2: CONSTRUCT A STEEL ARCH BRIDGE OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE] C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: .240 P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT OUT SUBTOTAL COMPLIANT. THE NEW BRIDGE WOULD STP - TRANSPORTATION ENHANCEMENT Subtotal: .047 Subtotal: .047 Subtotal: .001 Subtotal: .001 Subtotal: .001 Subtotal: .001			C 2010 L220 - STP - TRANSPORTATION ENHANCEMENT	.037	
R 2008 L220 - STP - TRANSPORTATION ENHANCEMENT OVER The UNIVERSAUKEE RIVER TRAIL PHASE 2: CONSTRUCT A STEEL ARCH BRIDGE OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE] C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: 240 Subtotal: 240 Subtotal: 240 Subtotal: 240 Subtotal: 0.47 S			Subtot	al: .037	
R 2008 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: 2.001 Total: 0.015 TILTON - MODIFICATIONS TO THE WINNIPESAUKEE RIVER TRAIL PHASE 2: CONSTRUCT A STEEL ARCH BRIDGE OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE] C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: 2.40 P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: 0.047 R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: 0.001 Subtotal: 0.001 Subtotal: 0.001 Subtotal: 0.001 Subtotal: 0.001			P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT	.006	
Subtotal:			Subtot	al: .006	
TILTON - MODIFICATIONS TO THE WINNIPESAUKEE RIVER TRAIL PHASE 2: CONSTRUCT A STEEL ARCH BRIDGE NORTHFIELD OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE] C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: .240 P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: .047 R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: .001 Subtotal: .001			R 2008 L220 - STP - TRANSPORTATION ENHANCEMENT	.001	
MODIFICATIONS TO THE WINNIPESAUKEE RIVER TRAIL PHASE 2: CONSTRUCT A STEEL ARCH BRIDGE NORTHFIELD OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE] C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: .047 Subtotal: .047 Subtotal: .001 Subtotal: .001			Subtot	al: .001	
NORTHFIELD 06-55TE OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS ADA COMPLIANT. THE NEW BRIDGE WOULD BE BUILT UPSTREAM. [06-55TE] C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: 0.047 R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT Subtotal: 0.001 Subtotal: 0.001			Tot	al: .045	
P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT .047 R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT .001 Subtotal: .001 Subtotal: .001	NORTHFIELD		OVER THE WINNIPESAUKEE RIVER SUITABLE FOR PEDESTRIANS AND BICYCLES WHICH IS AD		
P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT .047 R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT .001 Subtotal: .001			C 2011 L220 - STP - TRANSPORTATION ENHANCEMENT	.240	
Subtotal: .047 R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT .001 Subtotal: .001			Subtot		
Subtotal: .047 R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT .001 Subtotal: .001			P 2008 L220 - STP - TRANSPORTATION ENHANCEMENT	.047	
Subtotal:			Subtot		
			R 2009 L220 - STP - TRANSPORTATION ENHANCEMENT	.001	
Total: .288			Subtot	al: .001	
			Tot	al: .288	

Rpt10y_2k: rpt10YrRptAlpha_TE_2006_Approved

Phase: C = Construction

P = Preliminary Engineering

Project Name/#	Route/Road:	Location; Scope of Work			\$(M)	Comments:
WAKEFIELD 06-57TE		•	L SIDEWALK PROJECT: CONSTRUCT 3,740 LF OF 5' V LEMENTARY / MIDDLE SCHOOL WITH THE ADJACEN		•	
		C 2010	L220 - STP - TRANSPORTATION ENHANCEMENT	_	.180	
				Subtotal:	.180	
		P 2007	L220 - STP - TRANSPORTATION ENHANCEMENT		.025	
		P 2008	L220 - STP - TRANSPORTATION ENHANCEMENT	_	.013	
				Subtotal:	.038	
		R 2009	L220 - STP - TRANSPORTATION ENHANCEMENT		.001	
				Subtotal:	.001	
				Total:	.219	
VINDHAM 06-59TE			T AS VISITORS CENTER / MUSEUM / WAY STATION O AIL: ALSO MAKE IMPROVEMENTS TO PARKING ARE			
		C 2010	L220 - STP - TRANSPORTATION ENHANCEMENT		.200	
				Subtotal:	.200	
		P 2007	L220 - STP - TRANSPORTATION ENHANCEMENT		.007	
		P 2008	L220 - STP - TRANSPORTATION ENHANCEMENT		.002	
				Subtotal:	.009	
		R 2009	L220 - STP - TRANSPORTATION ENHANCEMENT		.001	
				Subtotal:	.001	
				Total:	.210	

 $Rpt10y_2k: \ rpt10YrRptAlpha_TE_2006_Approved$

Phase:

Exhibit 6.
Not Exempt Project List from Ten-Year Plan & Long Range Plans

ProjectID	Project#	Town	Description	мро	1st Const FY
			NH 101, WIDEN TO 5 LANES FOR APPROXIMATELY 2 MILES,		
1818	13953	BEDFORD	FROM NH 114 TO WALLACE ROAD	Manchester	2014
2844	11512A	BEDFORD - MANCHESTER - LONDONDERRY	AIRPORT ACCESS ROAD, CONSTRUCT BRIDGE OVER MERRIMACK RIVER, NH 3A, AND BRIDGE BOX CULVERT UNDER NH 3A FOR WILDLIFE CROSSING	Manchester	2006
5669	11512C	BEDFORD - MANCHESTER - LONDONDERRY	AIRPORT ACCESS ROAD, CONSTRUCT FE EVERETT TPK BRIDGE OVER MANCHESTER AIPORT ACCESS ROAD (MAAR) AND RAMP A & C BRIDGES	Manchester	2007
3794	11512F	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK	AIRPORT ACCESS ROAD, CONSTRUCT US 3, RAMPS H AND J, AND AIRPORT ACCESS ROAD BRIDGE OVER US 3	Manchester/Nashua	2009
5670	11512H	BEDFORD - MANCHESTER - LONDONDERRY - MERRIMACK BEDFORD - MANCHESTER -	AIRPORT ACCESS ROAD, CONSTRUCT NORTH OF LITTLE COHAS BRIDGE AND FINAL PAVING TO NH 3A	Manchester/Nashua	2010
5671	115121	LONDONDERRY - MERRIMACK	AIRPORT ACCESS ROAD, WIDEN FE EVERETT TURNPIKE	Manchester/Nashua	2010
3150	11512D	BEDFORD - MANCHESTER - LONDONDERRY- MERRIMACK	AIRPORT ACCESS ROAD, CONSTRUCT ACCESS ROAD OVER LITTLE COHAS RIVER AND ACCESS ROAD TO THE MERRIMACK RIVER BRIDGE	Manchester	2008
3150	11512D	BEDFORD - MANCHESTER - LONDONDERRY- MERRIMACK	AIRPORT ACCESS ROAD, CONSTRUCT ACCESS ROAD OVER LITTLE COHAS RIVER AND ACCESS ROAD TO THE MERRIMACK RIVER BRIDGE	Nashua	2008
2075	13742	BOW - CONCORD	I-93, WIDEN FROM I-89 TO BETWEEN EXITS 15 AND 16 TO MATCH INTO EXISTING CONCORD PROJECT 11449 @ EXIT 16; 163/106, 136/160, 135/160, 203/087, 142/116		2014
6205	13184C	CONCORD	I-393, CONSTRUCT DRAINAGE AND OVERLAY PAVEMENT FROM NORTH MAIN STREET EAST TO HORSE SHOE POND INTERSECTION		2007
3701	13860	CONCORD	LOUDON RD / PEMBROKE RD / OLD TPK RD, CONSTRUCT COMBINATION OF SIDEWALKS & BIKE PATHS ALONG WITH CURBING, DRAINAGE [02-03CM]		2007
3700	13865	CONCORD	US 3, CONSTRUCT SIDEWALKS TO AASHTO STANDARDS TO FILL IN EXISTING SIDEWALK GAPS REDUCE MOTOR VEHICLE TRAFFIC [02-05CM]		2007
5615	14426	CONCORD	CENTRE, LIBERTY, & AUBURN ST, CONSTRUCT ROUNDABOUT AT INTERSECTION OF CENTRE, LIBERTY, & AUBURN ST. [04-10CM]		2007
1816	13065	DERRY / LONDONDERRY	I-93, CONSTRUCTION OF EXIT 4A - NEW INTERCHANGE BETWEEN EXISTING EXIT 4 AND EXIT 5 TO: (1) RELIEVE TRAFFIC; (2) ALLOW ACCESS TO POTENTIAL DEVELOPMENT OF INDUSTRIAL LAND	Manchester	2011
6221	06-05CM	DOVER - PORTSMOUTH - BOSTON	INCREASED TRANSIT SERVICE AND INTERCITY BUS MARKETING CAMPAIGN FOR NH 16 / I-95 CORRIDORS [06-05CM & 06-23CM]	Seacoast	2007
3288		DOVER - ROCHESTER - SOMERSWORTH	NH 108, WIDENING AND RECONST. FROM THE WEEKS CORNER INT. NORTH 4.8 MILES TO THE NH 108 INT. WITH GRANITE PARKWAY IN ROCHESTER AND WIDENING OF SIXTH ST. CONNECTOR BRIDGE OVER THE SPAULDING TPK AT EXIT 9 WITH NB OFF-RAMP RECONST.	Seacoast	2016
2083	11429B	DOVER - ROCHESTER - SOMERSWORTH	SPAULDING TPK, CONSTRUCTION OF EXIT 10 AND EASTERLY CONNECTION - Phase 1	Seacoast	2014
3555	11429C	DOVER - ROCHESTER - SOMERSWORTH	SPAULDING TURNPIKE, CONSTRUCTION OF EXIT 10 AND EASTERLY CONNECTION - Phase 2	Seacoast	2015
188	11429D	DOVER - ROCHESTER - SOMERSWORTH	SPAULDING TPK, CONSTRUCTION OF EXIT 10 AND EASTERLY CONNECTION - Phase 3	Seacoast	2016

ProjectID	Project#	Town	Description	МРО	1st Const FY
3710	13868	DURHAM	EXPAND OR REPLACE ACCESSIBLE RAIL PLATFORM, STATION RENOVATION TO INCLUDE DEDICATED INDOOR TRAVELER WAITING SPACE AND CONSTRUCTION TO PROVIDE INTERMODAL BUS ACCESS TO PLATFORM AREA [02-08CM]	Seacoast	2007
3711	13869	DURHAM	PURCHASE THREE 14 PASSENGER TRANSIT VEHICLE FOR EXPANSION OF UNH WILDCAT SHUTTLE SYSTEM BEYOND CORE CAMPUS AREAS [02-09CM]	Seacoast	
3713	13871	EXETER	LINCOLN STREET, EXPAND EXISTING PASSENGER RAILROAD STATION PARKING AREA (PROJECT #10025A) FROM 78 TO 140 PARKING SPACES [02-13CM]	Seacoast	2007
6222	06-08CM	GREENLAND	TRUCKSTOP ELECTRIFICATION [06-08CM]	Seacoast	2010
4107	12537A	HOOKSETT	US 3 / NH 28, WIDEN NORTH OF BENTON ROAD SOUTH 0.411 MILES TO THE INTERSECTION WITH MARTIN'S FERRY ROAD [Section 117 - Designated Project; Demo Id NH031] CONNECTOR ROAD, BUILD A CONNECTOR ROAD BETWEEN US 3 /	Manchester	2008
5683	14320	HOOKSETT	NH 28 AND MERRIMACK STREET INCLUDING INTERSECTION IMPROVEMENTS	Manchester	2005
6223	06-10CM	HUDSON	TRAFFIC SIGNAL COORDINATION SYSTEM PHASE II [06-10CM]	Nashua	2010
2086	106250	HUDSON	CIRCUMFERENTIAL HWY, CONSTRUCTION OF MITIGATION SITE AT BENSON'S - PHASE 1	Nashua	2016
2087	10625Q	HUDSON	CIRCUMFERENTIAL HWY, CONSTRUCT BRIDGES (5), OLD DERRY ROAD, BARRETT'S HILL ROAD, GLOVER BROOK - PHASE 3	Nashua	2016
2088	10625R	HUDSON	CIRCUMFERENTIAL HWY, CONSTRUCT MAINLINE & RAMPS, NH 102 TO NH 111, & ROADWAY @ NH 111 - PHASE 3	Nashua	2016
3161	10625S	HUDSON	CIRCUMFERENTIAL HWY, CLEAN UP AND CLOSURE OF MITIGATION SITE AT BENSON'S	Nashua	2008
6147	13856A	KEENE - MILFORD	NH 101, RWIS INSTALL; TEMPLE MOUNTAIN, DISTRICT 4 PATROL SHED		2007
1828	10309B	KEENE - SWANZEY	NH 10/101 (WINCHESTER ST), RECONSTRUCTION FROM MATHEWS ROAD NORTH TO PEARL STREET. / ISLAND STREET INCLUDING INTERSECTION AT KEY ROAD		2013
1829	10309C	KEENE - SWANZEY	NH 12, NEW CONSTRUCTION FROM NH 32 NORTHERLY TO NH 101/OPTICAL AVENUE INTERSECTION - APPROX. 0.5 MILES		2015
2066	10309D	KEENE - SWANZEY	NH 10/12/101, CONSTRUCT INTERCHANGE AND EAST BOUND & WEST BOUND RAMPS @ WINCHESTER STREET INTERSECTION		2014
2067	10309E	KEENE - SWANZEY	NH 101, RECONSTRUCT INTERSECTION @ NH 12 (MAIN STREET)		2016
2068	10309F	KEENE - SWANZEY	NH 9/10/12/101, RECONSTRUCTION "SPDI" MAINLINE & TRUMPHET INTERCHANGE		2016
2280	10309G	KEENE - SWANZEY	NH 9/10/12, RECONSTRUCT INTERCHANGE @ WEST STREET		2014
			NH 9 / NH 10 / NH 12 / NH 101, INTERIM INTERSECTION IMPROVEMENTS AT 'T' INTERSECTION AND CONSTRUCTION OF FLOODPLAIN & WETLAND MITIGATION [Section 1702 -		
5705	10309J	KEENE - SWANZEY	Designated Project; Demo Id NH049] NH 12/101, INTERIM INTERSECTION IMPROVEMENTS @ MAIN		2009
5706	10309K	KEENE - SWANZEY	STREET		2010

ProjectID	Project#	Town	Description	МРО	1st Const FY
5707	10309L	KEENE - SWANZEY	NH 12 / 101, CONSTRUCTION OF INTERIM WIDENING WITH REPLACEMENT OF THE ASHUELOT RIVER BRIDGE		2011
2740		LITCHFIELD	ALBUQUERQUE AVE, CONSTRUCT .3 MILE SEGMENT FROM APRIL DRIVE TO NH 3A, INCLUDING INTERSECTION IMPROVEMENTS @ NH 3A	Nashua	2011
125	10625T	LITCHFIELD	NH 3A (Circumferential Hwy), CONSTRUCT INDUSTRIAL DRIVE, OFF NH 3A	Nashua	2014
2089	10625K	LITCHFIELD - HUDSON	CIRCUMFERENTIAL HWY, CONSTRUCT MAINLINE, RAMPS, TOLL BOOTH, NH 3A IMPROVEMENTS, BOAT RAMP ACCESS ROAD - PHASE 1	Nashua	2014
2091	10625P	LITCHFIELD - HUDSON	CIRCUMFERENTIAL HWY, CONSTRUCT MAINLINE & RAMPS FROM NH 3A TO NH 102 - PHASE 2	Nashua	2014
2090	10625H	LITCHFIELD - NASHUA	CIRCUMFERENTIAL HWY, CONSTRUCT NORTHERN RIVER CROSSING OVER MERRIMACK RIVER (2 BRIDGES) - PHASE 1	Nashua	2014
3275		LONDONDERRY	NH 28 & NH 128, INTERSECTION IMPROVEMENTS, FOR SAFETY AND TRAFFIC FLOW	Manchester	2015
			VARIOUS, CONSTRUCT APPROX. 6200' OF MULTIPURPOSE PATH & SIDEWALK: BEGINNING @ PILLSBURY & WILSHIRE RDS TO MAMMOTH RD & CONTINUE AS AN INDEPENDENT MULTI-USE		
3703	13872	LONDONDERRY	PATH [02-16CM]	Manchester	2007
2745		MANCHESTER	FEE TPK, RECONSTRUCT INTERCHANGE AT EXIT 7 TO BECOME FULL INTERCHANGE	Manchester	2016
6224	06-12CM	MANCHESTER	INCREASED TRANSIT SERVICE [06-12CM]	Manchester	2009
2968	13512	MANCHESTER	CONSTRUCT 600 SPACE PARK'N RIDE STRUCTURE [00-13CM] I-93, I-293, FEE TPK, INSTALLATION OF FIBER OPTIC CABLE AND	Manchester	2016
6187	14510Z	MANCHESTER TO CONCORD	CONDUIT FROM EXIT 13 IN CONCORD TO THE I-93 / I-293 JUNCTION IN MANCHESTER [ITS](Parent Project = 10418Z)	Manchester	2007
			US 3, CAPACITY IMPROVEMENTS TO IMPROVE TRAFFIC FLOW AT A NUMBER OF INTERSECTIONS AS IDENTIFIED IN RECENT		
3279		MERRIMACK	STUDIES COMPLETED BY THE TOWN OF MERRIMACK	Nashua	2015
2096	10625N	MERRIMACK	CIRCUMFERENTIAL HWY, CONSTRUCT MAINLINE, US 3 TO EXIT 9 & BRIDGES (2)	Nashua	2016
425	12259	MERRIMACK	US 3, PARK'N'RIDE, 250 SPACES - INTERMODAL FACILITY NEAR RR FACILITY, FEE Tpk, AND US 3 [94-40CM]	Nashua	2014
3662	13761	MERRIMACK - BEDFORD	F.E.E.Tpk, WIDEN TURNPIKE TO A 3 LANE TYPICAL FROM EXIT 11 IN MERRIMACK TO THE BEDFORD TOLL PLAZA TO MEET CURRENT AND PROJECTED VOLUME	Manchester/Nashua	2015
2099	106251	MERRIMACK - NASHUA	CIRCUMFERENTIAL HWY, CONSTRUCT BRIDGES (4), MAINLINE & RAMPS OVER PENNICHUCK BROOK - PHASE 1	Nashua	2014
2100	10625M	MERRIMACK - NASHUA	CIRCUMFERENTIAL HWY, CONSTRUCT FOR NHCH & FEE TPK: MAINLINE, RAMPS, & BRIDGES (5) @ EXIT 9 INTERCHANGE - PHASE 1	Nashua	2016

ProjectID	Project#	Town	Description	MPO	1st Const FY
			EAST HOLLIS STREET, RECONSTRUCTION OF EAST HOLLIS		
			STREET FROM MAIN STREET TO HUDSON TOWN LINE TO		
3536		NASHUA	IMPROVE CAPACITY	Nashua	2013
6225	06-13CM	NASHUA	INCREASED TRANSIT SERVICE [06-13CM]	Nashua	2009
			BALDWIN STREET, RECONSTRUCTION AND EXTENSION FROM AMHERST STREET, OVER B&M RAILROAD AND THE FUTURE		
			BROAD STREET PARKWAY TO FAIRMOUNT STREET, WITH		
2641	10040G	NASHUA	CONNECTOR TO FUTURE PARKWAY [Section 1602 - Designated Project; Demo Id NH003] [Sister Demo Projects: 10040A,	Nashua	2010
2011	100100				2010
			BROAD STREET PARKWAY, CONSTRUCTION FROM NASHUA RIVER WESTERLY TO BROAD STREET (TO SUBGRADE ONLY) [Section		
			1602 - Designated Project; Demo Id NH003] [Sister Demo		
2642	10040H	NASHUA	Projects: 10040A, G, H, J, S, T]	Nashua	2009
			BROAD STREET PARKWAY, CONSTRUCTION OF BRIDGE OVER		
2643	100401	NASHUA	NASHUA RIVER; FAIRMOUNT STREET BRIDGE OVER PARKWAY	Nashua	2012
			BROAD STREET PARKWAY, CONSTRUCTION FROM WEST HOLLIS		
			STREET TO PINE STREET EXTENSION INCLUDING BRIDGE OVER CANAL [Section 1602 - Designated Project; Demo Id NH003]		
2647	10040J	NASHUA	[Sister Demo Projects: 10040A, G, H, J, S, T]	Nashua	2010
			BROAD STREET PARKWAY, BASE COURSES, WEARING COURSES,		
2648	10040K	NASHUA	SIGNING, MARKINGS, RR CROSSING, AND SIGNALS	Nashua	2012
2649	10040L	NASHUA	BROAD STREET PARKWAY, PROJECT WIDE LANDSCAPING	Nashua	2013
			NH 101A, WIDENING BETWEEN CELINA AVENUE INTERSECTION		
			TO AMHERST STREET MALL INTERSECTION (1.5 MILES) TO		
3593	10136A	NASHUA	EXPAND FROM EXISTING FIVE LANES TO SEVEN LANES AS RECOMMENDED BY CORRIDOR STUDY (Milford to Nashua 10136)	Nashua	2010
			FEE TPK, CONSTRUCT 1000 SPACE PARK'N'RIDE NEAR B&M RR WITH RAIL PLATFORM; FACILITY WILL BE USED FOR CAR POOL,		
2344	13117	NASHUA	VANPOOL, & PASSENGER RAIL MODES [98-13CM]	Nashua	2008
2959	13514	NASHUA	PURCHASE COMMUTER RAIL EQUIPMENT [00-12CM]	Nashua	2006
					ļ
			VARIOUS, TRAFFIC SIGNALS, EXPAND THE CLOSED LOOP SYSTEM		
5621	14432	NASHUA	TO INCLUDE THIRTY ADDITIONAL INTERSECTIONS [04-30CM]	Nashua	2010
		MACHILA MEDDIMACK	CIRCUMFERENTIAL HWY, CONSTRUCT MAINLINE, RAMPS, US 3	l	
2082	10625L	NASHUA - MERRIMACK	ROADWAY IMPROVEMENTS & BRIDGES (2) - PHASE 1	Nashua	2016
3162	10625U	NASHUA - MERRIMACK	F.E.E.Tpk, WIDENING TO CIRCUMFERENTIAL HWY NORTH	Nashua	2014
			NH 16 / US 4 / SPLDG TPK, WIDEN TURNPIKE INCLUDING LITTLE BAY BRIDGES FROM GOSLING ROAD TO DOVER TOLL [Section		
			117 - Designated Project; Demo Id NH036] [Sister Demo Id NH053		
1191	11238	NEWINGTON - DOVER	& NH070]	Seacoast	2010
			NH 16 / US 4 / SPAULDING TURNPIKE, RECONFIGURATION AND RELOCATION OF RAMPS AND ACCESS (To provide matching funds		
		NEWINOTON BOUES	only to the federally-funded portion of the 11238 project for PE,		
6138	11238K	NEWINGTON - DOVER	ROW & Construction)	Seacoast	2009
			NH 108, CONSTRUCT 4' BIKE SHOULDERS FROM THE SOUTHERLY LIMIT OF PROJECT 13107 IN NEWMARKET TO THE NORTHERLY		
3708	13878	NEWMARKET - NEWFIELDS	LIMIT OF PROJECT 13107 IN NEWMARKET TO THE NORTHERLY LIMIT OF PROJECT P4386 IN NEWFIELDS [02-25CM]	Seacoast	2007
1814	13596	NORTHFIELD	I-93, COMPLETE EXIT 19		2014

ProjectID Project#		Town	Description	МРО	1st Const FY
3897	10044D PLAISTOW NH 125, RECONSTRUCT INTERSECTION OF OLD COUNTY RC		NH 125, RECONSTRUCT INTERSECTION OF OLD COUNTY ROAD	Sal-Pla-Win	2007
24	10044B	PLAISTOW - KINGSTON	NH 125, RECONSTRUCTION FROM EAST ROAD IN PLAISTOW NORTHERLY APPROX. 6.0 +/- MILE TO NH 125 & MAIN STREET INTERSECTION IN KINGSTON	Sal-Pla-Win	2010
3898	10044E	PLAISTOW - KINGSTON	NH 125, RECONSTRUCT INTERSECTION OF ROADSTONE DRIVE AND CONSTRUCT EXTENSION OF KINGSTON ROAD	Sal-Pla-Win	2008
2965	13515	PLAISTOW, NH to HAVERHILL, MA	CONSTRUCT RAIL PLATFORM & PROVIDE THREE YEARS OF OPERATING SUBSIDY FOR PASSENGER RAIL [00-20CM]	Sal-Pla-Win	2009
5617	14428	PORTSMOUTH	MARKET STREET EXTENSION, BIKE / PED PATH, BETWEEN MICHAEL SUCCI DRIVE AND THE NH PORT AUTHORITY [04-16CM]	Seacoast	2007
2101	10620G	ROCHESTER	SPAULDING TPK, CONSTRUCTION OF EXIT 11 & 12 (NH 125) BRIDGE - 158/110, AND 2nd BARREL - PHASE 1	Seacoast	2007
2103	10620H	ROCHESTER	SPAULDING TPK, CONSTRUCTION OF 2nd BARREL THROUGH EXIT 13 - PHASE 2 - 139/094	Seacoast	2008
2104	106201	ROCHESTER	SPAULDING TPK, CONSTRUCTION OF 2nd BARREL THROUGH EXIT 14 AND EXIT 15 - PHASE 3	Seacoast	2010
2105	10620J	ROCHESTER	SPAULDING TPK, CONSTRUCTION OF 2nd BARREL THROUGH EXIT 16 (Chestnut Hill Connector) - PHASE 4	Seacoast	2012
3885	10620K	ROCHESTER	SPAULDING TPK, EXIT 11 & 12 (NH 125) BRIDGE - 157/110, AND 2ND BARREL - PHASE 2	Seacoast	2008
3973	10620L	ROCHESTER	SPAULDING TPK, CONSTRUCTION OF 2ND BARREL THROUGH EXIT 14 & 15 - PHASE 3, PART B	Seacoast	2011
1800	10418F	SALEM TO MANCHESTER	I-93, CONSTRUCTION OF WETLAND MITIGATION SITES IN ANTICIPATION OF WETLAND IMPACTS ASSOCIATED WITH FUTURE IMPROVEMENTS TO I-93 FROM SALEM TO MANCHESTER. INCLUDES: LONDONDERRY L-8, L-8 EXTENSION, L-12 SITES; & LONDONDERRY ADVANCE MITIGATION / WETLAND CREA	Manchester/Sal-Pla-Win	2012
3137	10418G	SALEM TO MANCHESTER	I-93, PARK & RIDE @ EXIT 2 (Salem) [Part of 04-33CM]	Sal-Pla-Win	2007
3138	10418H	SALEM TO MANCHESTER	I-93, PARK & RIDE @ EXIT 3 (Windham) [Part of 04-33CM]	Sal-Pla-Win	2010
3821	13933A	SALEM TO MANCHESTER	I-93, RECONSTRUCT & WIDEN MAINLINE FROM S/L TO EXIT 1 (Salem)	Sal-Pla-Win	2011
3815	13933B	SALEM TO MANCHESTER	I-93, REPLACE CROSS STREET BRIDGE - 089/052, AND EXIT 1 EMBANKMENT (Salem)	Sal-Pla-Win	
3814	13933C	SALEM TO MANCHESTER	I-93, EXIT 1: REPLACE RAMP BRIDGES & RECONSTRUCT RAMPS - 082/061, 083/061, 084/061 (Salem)	Sal-Pla-Win	
3818	13933D	SALEM TO MANCHESTER	I-93, RECONSTRUCT & WIDEN MAINLINE BETWEEN EXIT 1 & 2 AND REPLACE BRIDGES OVER NH 38 - 073/063, 077/063 (Salem)	Sal-Pla-Win	
3819	13933E	SALEM TO MANCHESTER	I-93, EXIT 2, REPLACE BRIDGES OVER PELHAM ROAD - 068/078 & 070/079 (Salem)	Sal-Pla-Win	
5728	13933F	SALEM TO MANCHESTER	I-93, EXIT 2 INTERCHANGE (Windham)	Sal-Pla-Win	2011
3816	13933G	SALEM TO MANCHESTER	I-93, MEDIAN WORK & REPLACE BROOKDALE ROAD BRIDGE - 058/089 (Salem)	Sal-Pla-Win	
3817	13933H	SALEM TO MANCHESTER	I-93, CONSTRUCT RELOCATED MAINLINE & NEW BRIDGES OVER NH 111A FROM BROOKDALE RD (approx) TO NH 111A (Salem-Windham)	Sal-Pla-Win	
3820	139331	SALEM TO MANCHESTER	I-93, EXIT 3 NH 111 BRIDGES AND NH 111 RELOCATION (Windham)	Sal-Pla-Win	
3822	13933J	SALEM TO MANCHESTER	I-93, EXIT 3 INTERCHANGE - 134/101 & 135/090 (Windham)	Sal-Pla-Win	2011

ProjectID	Project#	Town	Description		1st Const FY
3824	13933K	SALEM TO MANCHESTER	I-93, RECONSTRUCT AND WIDEN MAINLINE NORTH OF EXIT 3 THROUGH WEIGH STATIONS - 096/163, 097/163, 099/160, 100/160 (Windham)	Sal-Pla-Win	2012
5729	13933L	SALEM TO MANCHESTER	1-93, RECONSTRUCT & WIDEN MAINLINE (Projects to be broken out)	Manchester/Sal-Pla-Win	2009
4110	14800*	SALEM TO MANCHESTER	I-93, "DEBT SERVICE PROJECT" FOR: RECONSTRUCTION & WIDENING FROM S/L TO MANCHESTER [Garvee Bonded Projects - 2005 NH Legislature Approved]	Manchester/Sal-Pla-Win	2007
3888	10418Z	SALEM TO MANCHESTER TO CONCORD	I-93, IMPLEMENTATION OF INCIDENT MANAGEMENT AND ITS TECHNOLOGIES FOR OVERALL CORRIDOR, TO IMPROVE EFFICIENCY BEFORE, DURING & AFTER I-93 CONSTRUCTION, INCLUDES CMAQ APP [06-22CM]	Manchester/Sal-Pla-Win	2007
3550	11151E	SEABROOK TO PORTSMOUTH	BLUE STAR TPK (I-95), ITS DEPLOYMENT; ITS INITIATIVE ALLOWING FOR DEPLOYMENT OF CHANGEABLE MESSAGE BOARDS, HIGHWAY ADVISORY RADIO TO IMPROVE MOTORIST SAFETY AND AWARENESS [04-31CM]	Seacoast	2007
5721	11151F	SEABROOK TO PORTSMOUTH	BLUE STAR TPK (I-95), ITS DEPLOYMENT; ITS INITIATIVE ALLOWING FOR DEPLOYMENT OF CHANGEABLE MESSAGE BOARDS, HIGHWAY ADVISORY RADIO TO IMPROVE MOTORIST SAFETY AND AWARENESS	Seacoast	2007
6227	06-25CM	SEACOAST	SEACOAST COMMUTER OPTIONS - PROGRAM EXPANSION / ACCELERATED IMPLEMENTATION [06-25CM]	Seacoast	2007
6276	14631	SEACOAST	I-95, CONGESTION MITIGATION PROJECT TO INCLUDE THE INSTALLATION OF VARIOUS ITS DEVICES	Seacoast	2007
5614	14354	STATEWIDE	MISCELLANEOUS, EXPANSION OF THE ALTERNATIVE FUEL VEHICLE PROJECT (AFVP) TO PROVIDE INCREMENTAL COSTS OF AFVS AND 80% INFRASTRUCTURE COSTS [04-05CM]	Manchester/Nashua/Sal- Pla-Win/Seacoast	2007
3142	10434A	TROY	NH 12 BYPASS, CONSTRUCTION OF BYPASS FROM MONADNOCK STREET NORTHERLY		2012
3143	10434B	TROY	NH 12 BYPASS, CONSTRUCTION OF BYPASS FROM MONADNOCK STREET SOUTHERLY		2015
4137		WHITEFIELD	MT. WASHINGTON AIRPORT, SNOW REMOVAL EQUIPMENT STORAGE BUILDING		2009
35	10075A	WINDHAM - SALEM	NH 111, RECONSTRUCTION & SIGNALIZATION @ NORTH POLICY ROAD	Sal-Pla-Win	2016
3171	10075F	WINDHAM - SALEM	NH 28 / NH 111, RECONSTRUCTION OF INTERSECTION @ LAKE STREET AND SHADOW LAKE ROAD	Sal-Pla-Win	2013

Exhibit 7. 2002 HPMS VMT EMISSIONS

eacoast Nonattainment area 2002						Emissions		
Group	FC	HPMS Corrected Total Summer DVMT	Weighted Average Speed	НС	NOx	НС	NOx	Speed
1	1	922,080	59	1.017	2.523	937.8	2326.4	54402720
1	2	705,472	55	1.029	2.347	725.9	1655.7	38800960
1	6	528,900	43	1.072	1.901	567.0	1005.4	22742700
1	7	425,162	37	1.108	1.850	471.1	786.5	15730994
1	8	113,699	37	1.108	1.850	126.0	210.3	4206863
1	9	159,830	25	1.255	1.933	203.5	309.0	3995750
1	11	394,287	52	1.039	2.246	409.7	885.6	20502924
1	12	894,105	52	1.039	2.246	929.0	2008.2	46493460
1	14	827,924	45	1.062	1.922	879.3	1591.3	37256580
1	16	1,241,191	30	1.182	1.863	1467.1	2312.3	37235730
1	17	288,681	25	1.255	1.933	362.3	558.0	7217025
1	19	321,752	25	1.255	1.933	403.8	621.9	8043800
		6,823,083				7482.3	14270.7	296629506
								43
	lonattain	ment area 2002						
2	1	1,890,033	62	1.013	2.604	1914.6	4921.6	117182046
2	2	1,012,738	58	1.020	2.473	1033.0	2504.5	58738804
2	6	609,770	42	1.077	1.890	656.7	1152.5	25610340
2	7	820,898	37	1.108	1.850	909.6	1518.7	30373226
2	8	182,731	37	1.108	1.850	202.5	338.1	6761047
2	9	303,938	25	1.255	1.933	381.4	587.5	7598450
2	11	308,299	57	1.023	2.421	315.4	746.4	17573043
2	12	907,494	57	1.023	2.421	928.4	2197.0	51727158
2	14	1,109,877	35	1.122	1.838	1245.3	2040.0	38845695
2	16	1,504,748	29	1.194	1.875	1796.7	2821.4	43637692
2	17	440,741	25	1.255	1.933	553.1	852.0	11018525
2	19	540,375	25	1.255	1.933	678.2	1044.5	13509375
		9,631,642				10614.8	20724.1	422575401

Exhibit 8. MOBILE6.2 inputs

Sample Input data: 2002-AR.in

MOBILE6 INPUT FILE : > FILE NAME: 2002-AR.in > DATE: 2-22-05 > CREATED BY: REO > INPUT FILE FOR MOBILE6.2 for 2002 > NH VEH REG DATA ADJUSTED FOR 2002 > VMT FRACTION DEVELOPED IN MAY 2002 FROM 1999 HPMS DATA AND VISUAL COUNTS, AND > ADJUSTED TO CURRENT YEAR BASED ON MOBILE6.2 DEFAULTS * (H:\MOBILE6.2\VMT MIX\2-18-05 VMT mix adjustment - add 2009.xls) > NON-ATTAINMENT AREA > SUMMER SEASON > USE FOR OUTPUT - 2005-2025 8 HOUR STANDARD CONFORMITY DETERMINATION > RFG, NLEV NE, ESI(ATP), NO OBD > ARTERIAL ROADWAY * Make sure that Report File matches the Input File. REPORT FILE : H:\Mobile62\Run\0525conf\8Hour\2002-AR.out POLLUTANTS : HC NOx CO RUN DATA NO REFUELING 94+ LDG IMP : NLEVNE.D > NEW HAMPSHIRE DATA FOR MIN/MAX TEMP, FUEL RVP, VMT FRACTIONS, ESI/ATP, FUEL, SEASON MIN/MAX TEMP : 62. 92. FUEL RVP : 6.8 EXPRESS HC AS VOC : *New Hampshire Vehicle Registration Distribution Input (External File) : H:\Mobile6\Run\NHallage.d *New Hampshire 2002 VMT Fractions from file H:\Mobile6.2\VMT Mix\5-17-04 VMT mix *adjustment.xls * HDV5 value of 0.0015 changed to 0.0014 and HDBS value of 0.0012 changed to 0.0011 to make * VMT fractions add up to 1.000 VMT FRACTIONS 0.5355 0.0701 0.2330 0.0551 0.0253 0.0247 0.0024 0.0020 0.0014 0.0055 0.0065 0.0070 0.0252 0.0011 0.0006 0.0046 *New Hampshire ESI Program is ATP ANTI-TAMP PROG 99 80 50 22222 11111111 1 11 096. 22211122

*New Hampshire specific fuel program shown below (2 N for RFG, 1 for Conventional East)

FUEL PROGRAM : 2 N

*NEW Hampshire Season of interest (1 for summer, 2 for winter)

SEASON : 1

> Scenario(s) being modeled includes area, road class, type, speed, year, month

SCENARIO RECORD : Scenario Title : NH speed 65

> 2002 Speed 65 mph (Arterial)

* This text is for annotating this file and is otherwise ignored.

CALENDAR YEAR : 2002 EVALUATION MONTH : 7 ALTITUDE : 1

AVERAGE SPEED : 65 Arterial 0.0 100.0 0.0 0.0

...other speeds cut...

SCENARIO RECORD : Scenario Title : NH speed 2.5

> 2002 Speed 2.5 mph (Arterial)

* This text is for annotating this file and is otherwise ignored.

CALENDAR YEAR : 2002 EVALUATION MONTH : 7 ALTITUDE : 1

AVERAGE SPEED : 2.5 Arterial 0.0 100.0 0.0 0.0

END OF RUN

Sample Input data: 10CO-AR.in

MOBILE6 INPUT FILE : * FILE NAME: 10CO-AR.in

> DATE: 2-22-05 * CREATED BY: REO

* INPUT FILE FOR MOBILE6.2 for 2010

- * VMT FRACTION DEVELOPED BY NH DOT IN MAY 2002 FROM 1999 HPMS DATA AND VISUAL COUNTS, AND
- * ADJUSTED TO CURRENT YEAR BASED ON MOBILE6.2 DEFAULTS
- * (H:\MOBILE6.2\VMT MIX\2-18-05 VMT mix adjustment add 2009.xls)
- * NON-ATTAINMENT AREA
- * WINTER
- * USE FOR OUTPUT 2005-2025 CONFORMITY DETERMINATION SPRING 2005
- * RFG, NLEV NE, ESI(ATP), OBDII STARTING IN 2005
- * RVP set at 12.9 per EPA guidance

> Make sure that Report File matches the Input File

REPORT FILE : H:\Mobile62\Run\0525conf\8Hour\10CO-AR.out

POLLUTANTS : CO

RUN DATA

NO REFUELING :

94+ LDG IMP : NLEVNE.D

> NEW HAMPSHIRE DATA FOR MIN/MAX TEMP, FUEL RVP, VMT FRACTIONS, ESI/ATP, FUEL, SEASON

MIN/MAX TEMP : 30. 30. FUEL RVP : 12.9

EXPRESS HC AS VOC :

*New Hampshire Vehicle Registration Distribution Input (External File)

REG DIST : H:\Mobile62\Run\NHallage.d

*New Hampshire 2010 VMT Fractions from file H:\Mobile6.2\VMT Mix\5-17-04 VMT mix adjustment.xls

VMT FRACTIONS

0.4189 0.0907 0.3015 0.0713 0.0328 0.0259 0.0025 0.0021 0.0017 0.0058 0.0068 0.0074 0.0264 0.0013 0.0007 0.0042

- > the following assumptions are made for the I/M program: NH's OBD program begins in 2005,
- > and applies to all 1996 and newer light duty vehicles. The program type is "Test and
- > Repair, Computerized"; stringency assumptions are set at 50%. EPA has said that because the
- > stringency does not apply to NH program as pre-81 vehicles are not subject to I/M the value
- > of this number is inconsequential; NH offers no waivers.

I/M PROGRAM : 1 2005 2050 1 TRC OBD I/M

I/M MODEL YEARS : 1 1996 2050

I/M VEHICLES : 1 22222 11111111 1

I/M STRINGENCY : 1 50.0

I/M COMPLIANCE : 1 96.0

I/M WAIVER RATES : 1 0.0 0.0

I/M PROGRAM : 2 2005 2050 1 TRC EVAP OBD

I/M MODEL YEARS : 2 1996 2050

I/M VEHICLES : 2 22222 11111111 1

I/M STRINGENCY : 2 50.0

I/M COMPLIANCE : 2 96.0

I/M WAIVER RATES : 2 0.0 0.0

ANTI-TAMP PROG

99 80 95 22222 11111111 1 11 096. 22211122

*fuel program shown below (2 N for RFG, 1 for Conventional East)

FUEL PROGRAM : 2 N

*Season of interest (1 for summer, 2 for winter)

SEASON : 2

> Scenario(s) being modeled includes area, road class, type, speed, year, month

SCENARIO RECORD : Scenario Title : NH speed 65

> 2010 Speed 65 mph (Arterial)
CALENDAR YEAR : 2010
EVALUATION MONTH : 1
ALTITUDE : 1

AVERAGE SPEED : 65 Arterial 0.0 100.0 0.0 0.0

...other speeds cut...

SCENARIO RECORD : Scenario Title : NH speed 2.5

> 2010 Speed 2.5 mph (Arterial)

CALENDAR YEAR : 2010 EVALUATION MONTH : 1 ALTITUDE : 1

AVERAGE SPEED : 2.5 Arterial 0.0 100.0 0.0 0.0

END OF RUN :

Sample Input data: 2025-FR.in

MOBILE6 INPUT FILE : > FILE NAME: 2025-FR.in

> DATE: 2-22-05 > CREATED BY: REO

> INPUT FILE FOR MOBILE6.2 for 2025

> VMT FRACTION DEVELOPED BY NH DOT IN MAY 2002 FROM 1999 HPMS DATA AND VISUAL COUNTS, AND

> ADJUSTED TO CURRENT YEAR BASED ON MOBILE6.2 DEFAULTS

* (H:\MOBILE6.2\VMT MIX\2-18-05 VMT mix adjustment - add 2009.xls)

> NON-ATTAINMENT AREA

> SUMMER SEASON

> USE FOR OUTPUT - 2005-2025 8 HOUR STANDARD CONFORMITY DETERMINATION

> RFG, NLEV NE, ESI(ATP), OBDII STARTING IN 2005

> Make sure that Report File matches the Input File

REPORT FILE : H:\Mobile62\Run\0525conf\8Hour\2025-FR.out

POLLUTANTS : HC NOx CO

RUN DATA

NO REFUELING :

94+ LDG IMP : NLEVNE.D

> NEW HAMPSHIRE DATA FOR MIN/MAX TEMP, FUEL RVP, VMT FRACTIONS, ESI/ATP, FUEL,

SEASON

MIN/MAX TEMP : 62. 92. FUEL RVP : 6.8

EXPRESS HC AS VOC :

*New Hampshire Vehicle Registration Distribution Input (External File)

REG DIST : H:\Mobile62\Run\NHallage.d

*New Hampshire 2025 VMT Fractions from file H:\Mobile6.2\VMT Mix\5-26-04 VMT mix adjustment.xls

VMT FRACTIONS

0.3360 0.1053 0.3503 0.0829 0.0381 0.0267 0.0026 0.0022 0.0018 0.0060 0.0071 0.0077 0.0273 0.0013 0.0007 0.0040

- > the following assumptions are made for the I/M program: NH's OBD program begins in 2005,
- > and applies to all 1996 and newer light duty vehicles. The program type is "Test and
- > Repair, Computerized"; stringency assumptions are set at 50%. EPA has said that because the
- > stringency does not apply to NH program as pre-81 vehicles are not subject to I/M the value
- > of this number is inconsequential; NH offers no waivers.

I/M PROGRAM : 1 2005 2050 1 TRC OBD I/M

I/M MODEL YEARS : 1 1996 2050

I/M VEHICLES : 1 22222 11111111 1

I/M STRINGENCY : 1 50.0

I/M COMPLIANCE : 1 96.0

I/M WAIVER RATES : 1 0.0 0.0

I/M PROGRAM : 2 2005 2050 1 TRC EVAP OBD

I/M MODEL YEARS : 2 1996 2050

I/M VEHICLES : 2 22222 11111111 1

I/M STRINGENCY : 2 50.0

I/M COMPLIANCE : 2 96.0

I/M WAIVER RATES : 2 0.0 0.0

ANTI-TAMP PROG

99 80 95 22222 11111111 1 11 096. 22211122

*fuel program shown below (2 N for RFG, 1 for Conventional East)

FUEL PROGRAM : 2 N

*Season of interest (1 for summer, 2 for winter)

SEASON : 1

> Scenario(s) being modeled includes area, road class, type, speed, year, month

SCENARIO RECORD : Scenario Title : NH speed 60.7 and greater

> 2025 Speed 60.7 mph and greater (Freeway)

* This text is for annotating this file and is otherwise ignored.

CALENDAR YEAR : 2025 EVALUATION MONTH : 7 ALTITUDE : 1

AVERAGE SPEED : 60.7 Freeway 92.0 0.0 0.0 8.0

SCENARIO RECORD : Scenario Title : NH speed 60

> 2025 Speed 60 mph (Freeway)

* This text is for annotating this file and is otherwise ignored.

CALENDAR YEAR : 2025 EVALUATION MONTH : 7 ALTITUDE : 1

AVERAGE SPEED : 60 Freeway 92.0 0.0 0.0 8.0

...other speeds cut...

SCENARIO RECORD : Scenario Title : NH speed 3

> 2025 Speed 3 mph (Freeway)

* This text is for annotating this file and is otherwise ignored.

CALENDAR YEAR : 2025 EVALUATION MONTH : 7 ALTITUDE : 1

AVERAGE SPEED : 3 Freeway 92.0 0.0 0.0 8.0

END OF RUN

Exhibit 9.
Off Model analysis for Manchester Marginal area

Off model analysis for Statewide 14265 [04-34CM], Creation of a Transportation Management Center

From FHWA Resource Center, AIR QUALITY TEAM
Off-Model Air Quality Analysis: A Compendium of Practice
http://www.fhwa.dot.gov/resourcecenter/teams/airquality/pubs2.cfm

The main goal of an Incident Management Program is to reduce congestion by removing vehicles which are debilitated, injured or just broke. Nonrecurring Congestion is the effect these vehicles have on the main line flow. Excess freeway emission are caused by this type of congestion. This analysis provides the basis for calculation of reduction of VOCs due to these programs; however, NOx can be analyzed in a similar fashion.

- a) Determine Regional Freeway VOC Emissions, EB.
- b) Determine Freeway Emissions due to Nonrecurring Congestion, EC. EC = EB * 0.049

Note: 4.9 Percent of Freeway Emissions are Caused by Nonrecurring Congestion.5

c) Next the Daily VOC reductions, ED, are calculated. These assume, since freeway emissions are directly related to VMT, that the VMT in the program area is used to calculate emission reductions.

.ED = L * VOLi * EC / VOLT * EFF

where,

L = Length of Freeway VOLi = Volume of Freeway i VOLT = Regional Freeway VMT

EFF = Project Effectiveness, 50% for Incident Detection and Response, 25% for Motorist Assistance, and 15% for Surveillance. Use 15% effectiveness

Assume average speed >= 60.7 mph

2007
Freeway
VOC NOX
Speed Summer Summers
60.7 0.602 1.588
Emission Factors, from DES on 2/23/05

2009
Freeway

Speed & Summer Summer 60.7 0.501 1.275

- suoj	14.444	0.782	3.949	11.931	30.010 8.842	10.106	21.541	42.749	2.504	4.712	5.766	4.011	5.314	22.300	22 000	2.485	10.052	7.571	2.211	7.566	5.768	3.088	9.709	8.188	14.831	29.725	21.169	9.132 R2.880	10.878	64.920	11,715	20.433	15.999	16.150 48.481	11.443	51.285	1,746	7.751	52.693	100.339	100.957	d.897	45.192 77.058	51.977	47.104	82.283	11.979	36.089 12.654
2009 • Emissions	Š					_		_	_	7	9	6 0 (•																					
2009 Emissions			1.552	4.688	3.474	3.97	8.464	16.798	0.984	1.852	2.266	1,578	2.088	8.03	9,03	4.906	3.950	2.975	8.727	2.973	2.267	1.213	15.603	15.005	5.828	11.680	0.318	24 704	4 274	25.510	4.603	8.029	6.287	10.040	4.498	20.144	28.192	3.046	20.705	39.427	39.670	155.22	30 278	20.424	18.509	32.325	4 707	14.181
2007 Emissions -	17.990	0.973	4.918	14.861	11.013	12.586	26.829	53.244	3.119	5.869	7.181	4.998	0.018	20.032	20.032	15.550	12.520	9.430	27.663	9.423	7.184	3.846	49.457	47.562	18.472	37.023	11 373	78.303	13.546	80.858	14.591	25.449	19.926	60.382	14.252	63.850	89.358	9.653	65.629	124.971	125.741	66.003	95.972	64.736	58.667	102,458	14.919	44.948 15.761
2007 Emissions - 1	6.820	0.369	1.864	5.634	4.175	4.77.1	10.171	20.184	1.182	2.225	2.722	1.894	2.30g	10.854	11.327	5,895	4.748	3.575	10.487	3.572	2.723	1.458	18.749	18.031	7.002	14.035	4.312	29.684	5.135	30.653	5.531	9.648	400.7	22.890	5.403	24.205	33.875	3.660	24.879	47.378	47.553 28.884	24 338	36.382	24.541	22.240	38.841	5.658	5.975
	11,329	613	3,097	90.00	6.935	7,926	16,895	33,529	1,964	3,696	4,522	3,146	18 030	18,030	18.816	9,792	7,884	5,938	17,420	5,934	4,524	2,422	31,144	29,951	11,632	16,514	7,162	49.309	8,530	50,918	9,188	16,026	12,548	38.024	8,975	40,208	56,271	6,079	41.328	180.07	281,67	35,445	60,436	40,788	36,944	64,520	9,395	28,305 9,825
2007 VMT ;	10,889	589	2,977	27.589	6.537	7,471	15,925	31,605	1,851	3,484	4,263	2,965	3,929 16,005	16 995	17.738	9,229	7,432	5,597	16,420	5,817	4,435	2,375	29,356	28,231	10,965	15,850	7.021	48,337	8,362	49,915	8,661	15,108	11 930	35,840	8,459	37,899	55,163	5,959	40,514	14,-12	42.083	33.410	56,967	38,425	34,823	60,817	9,030	9,355
2009 AADT 2007 VMT 2009 VMT (1 way)	26,655	26,655	26,655	27 073	27,973	27,973	27,973	27,973	27,973	31,643	31,643	31,643	31643	31,643	31.643	31,643	31,643	31,643	31,643	10,314	10,314	10,314	40,001	40,001	40,001	00.04	32.377	32,377	32,377	32,377	19,105	19,105	19,103	19,105	19,105	19,105	33,969	33,969	33,909	10,01	60.300	60.300	60,300	80,300	80,300	60,300	27 504	46,568
2007 AADT 2 (1 way)	25,620	25,620	25,620	020,02	26,388	26,368	26,368	26,368	26,368	29,826	29,826	29,826	29,626	29.826	29,826	29,826	29,826	29,826	29,826	10,111	10,111	10,111	37,705	37,705	37,705	37.705	31,739	31,739	31,739	31,739	18,008	18,008	18,008	18,008	18,008	18,008	33,300	33,300	33,300	75,57	56.838	56.838	56,838	56,838	56,838	56,838	26,320	43,895
Growth%	1.02	1.02	1.02	2 5	1.03	1.03	1.03	1.03	1.03	1.03	 	50:	50	1.03	1.03	1.03	1.03	1.03	1.03	1.0 1.0	<u>.</u>	1.01	1.03	53.5	3 5	50.	5 5	5	10.1	1.01	1.03	3 5	. E	50.	1.03	<u>8</u>	1.01	5.5	5 6	3 5	103	1.03	1.03	1.03	1.03	5.03 60.03	20.4	1.03
2003 AADT (2 way)	47338	47338	47338	46854	46854	46854	46854	46854	46854	53000	23000	23000	53000	53000	53000	53000	53000	53000	23000	19432	19432	19432	67000	9/000	67000.	87000	61000	61000	61000	61000	32000	32000	32000	32000	32000	32000	64000 64000	64000	77000	77000	101000	101000	101000	101000	101000	101000	49000	78000
ER_ID FC	12	7	2 5	7 =	Ξ	Ξ	Ξ:	= :	 .	· ·	- •		· ∓	Ξ	Ŧ	Ŧ	Ŧ	F	Ξ		-	- :	Ξ;	= ;	= =	=	:	-	-	-	- •		-	Ŧ	Ξ	Ξ,	- •	- •	- ∓	: :	Ξ.	Ξ	Ξ	=	Ξ;	= \$	5 5	! =
COUNTER	3.20584757 02037090	52 02037090	99 0203/090	05 02285002	76 02285002	64 02285002	86 02285002	27 02285002	94 02285002	16 02285092	250 0229092	60 UZZ85U9Z	16 02285092	24 02285092	61 02285092	57 02285092	35 02285092	07 02285092	00 02285092	01 61285153	43 61285153	60 61285154	11 6203/058	14 62037058	15 62037058	75 62037058	35 62225060	09 62225060	20 62225060	34 62225080	34 62225058 77 62225068	77 62225068	74 62225068	75 62225068	81 62225068	02 62225068	29 02225083	14 02225003	21 62269002	18 82289002	55 62285059	52 62285059	94 62285059	61 62285059	11 62285059	67 62285059 80 82285080	59 62285060	0 0.21312989 62285128
TO_MP	3.205647	2.78063052	1.21602099	2.54637405	1.12157276	3.21248264	5.01507686	4.41110527	2.92913794	1.455493115	1.3994UDZ3	5.05560160 5.18533222	7.13022016	0.56979624	1.33967361	0.74502257	5.98503535	6.17268907	5.73586600	2.61348201	2.03809343	4.95418260	3.98422411	0.2008014	0.230001 0.873646	5.550697	4.893288	3.416268	1,836148	1,572687	0.460340	319789	0.883001	5.550697	3.560449	2.104580	4.67 UUU4	2010105	1.711874	7 130220	3.454195	1.042011	2.714143	1.337783	3.661733	347345	373227	213129
FROM_MP TO_MP			1.09982481								0.190049110				0.74502257								3.20364737	0.0000000	0.29080114	5.13562263	4.67208065	4.89328835	1.57268734	0.00000000	0.00000000	0.66300174	0.00000000	3.56044981	3.09069413	0.00000000	2.01340201 s	2.03014020	0.00000000	5.40778267	2.71414394	3.45419555 4	1.71187421	3.66173311	3.04906234	0.00883507	0.34734580	0.00000000
STREET	F.e. Everett Tpk	F.e. Everett Tpk	FEVOREIT I DK	Fee Tok & 1-293	Fee Tpk & I-293	Fee Tpk & I-293	Fee Tpk & I-293	Fee lipk & 1-293	Fee Ipk & F293	Alan B Shepard	Alan B Shepard	Alan B Shenard	Alan B Shepard Hwy	Alan B Shepard Hwy	Alan B Sheppard	Alan B Shepard	Alan B Shepard	Alan 6 Shepard	ree ipk & I-293 Ess Tat P I 202	Fee I propries	Fee Tok & I-293	Fee Tpk & I-293	Alan B Shepard	Fee Trpk	Fe Everett Tpk	Fe Everett Tpk	F. E. EVERBIL TWY	F. E. Everett Hwy	Fee Tpk	Fee Tpk & I-293	Fee Tpk & I-293	Fee Ipk & F293	Fe Everet Tok	Fe Everett Tok	Alan B Shepard Hwy	Southside Rd	Southside Rd	1 293 Nb										
DYNSEG_ID STREET		_	037.9991.5	285:9991:N	285:9991:N	285:9991:5	285:9991:5	285:9991:5	280:8881:5	N:8880:027	225.0000.0	225:0999:S	285:0999:N	285:0999:S	225:0999:N	225:0999:N	225:0999:S	225:0999:S	S:6660:522	N.6660.022	N:6880:077	ZZ3.0888.5	037.9891.N	285-9991-N	285:9991:N	285:9991:S	225:0999:N	225:0999:N	225:0999:S	225:0999:S	225-0001-N	225:9991:S	225:9991:S	285:9991:N	285:9991:N	205.8891.S	225.0999.14	225.0999.8	285:0999:N	285.0999:S	285:0999:N	285:0999:N	285:0999:N	285:0999:5	285.0999.3	285:0032:W	285:0032:W	037:9993:N
Qis			037:0031:0033	285:0936:2536	285:0917:0936	285:2531:2535	285:0935:0715	285:2535:0935	263:2613:2331					285:8340:8335	225:0046:8336	225:0028:0046	225:0044:0038			2520.121.0252						285:0698:6117		225:0304:6207		225:6208:0303						205:0344:3039				285:0246:8708					285-0262-0248			037:6115:0248

SID DYNSEG_ID STREET	STREET	FROM_MP TO_MP	AP COUNTER_ID	ည	ADT Growth%	2007 AADT	Þ	2007 VMT 2009 VMT		2007			6002
				(2 way)		(1 way) (1	(1 way)		Œ	slons -	Emissions -	Emissions -	Emissions -
0.0007:00444 0.0000.0	1000	***************************************	00740000 00407		;	:	!	,	_				Š
	05 567	0.890463/0 1.2/318/03 622651	82168229 50/815	11 78000	1.03	43,895	46,568	12,410	13,166	7.926	20.908		18.787
	101 By Pass	2.50784911 2.78	2.78187326 62285128	11 78000	1.03	43,895	46,588	12,028	12,761	7.682	20.264	6.393	18.270
	101 By Pass		2.50784911 62285128	11 78000	1.03	43,895	46,568	30,384	32,235	19.405	51.189	16.150	41.100
	101 By Pass		3.02979987 62285128	11 78000	1.03	43,895	46,568	10,883	11,545	6.950	18.333	5.784	14.720
	101 By Pass		0.52132939 62285128	11 78000	3	43,895	46,568	16,010	16,985	10.225	26.972	8.509	21.656
• • •	101 By Pass	_	0.15858523 62285128	11 78000	1.03	43,895	46,568	6,873	7,292	4.390	11.580	3.653	9.297
	101 By Pass	•	1.20980729 62285128	11 78000	1.03	43,895	46,568	30,221	32,061	19.301	50.913	18.083	40 87R
•••	101 By Pass	•	1.49377338 62285129	11 80000	1.03	45,021	47,762	34,436	38,533	21.993	58.014	18.303	46.580
_	101 By Pass	•	1.81564299 62285129	11 80000	1.03	45,021	47,762	14,491	15,373	9.255	24.412	7.702	19.801
	101 By Pass		1.51800879 62285129	11 80000	1.03	45,021	47,782	13,875	14,720	8.861	23.375	7.375	18,768
	101 By Pass	1.51800679 2.297	2.29720470 62285129	11 80000	1.03	45,021	47,762	35,080	37,216	22.404	59,099	18.645	47.450
	Alan B Shepard Hwy	4.70128503 5.18222537 622851	222537 62285150	11 71000	1.03	39,958	42,389	19,216	20,387	12.273	32.375	10.214	25.993
	Auan is Shepard Hwy	4.04201152 4.70128503 622851	128503 62285150	11 71000	1.03	39,856	42,389	26,342	27,948	16.823	44,378	14.001	35.631
	Alan B Shepard Hwy		500000 62285150	11 71000	 	39,956	42,389	110,877	117,629	70.813	186.795	58.932	149.977
	Alan B Shepard Hwy		2.49045076 62285150	11 71000	.03	39,958	42,389	21,972	23,310	14.033	37.016	11.678	29.720
	Alan B Shepard Hwy		6.56042392 62285152	11 65000	- - -	36,579	38,807	35,003	37,134	22.355	58.989	18.604	47.348
N:880:092 000:200:300	Alan B Shepard Hwy	5.18222537 5.803	5,60351420 62285152	11 65000	13	38,579	38,807	15,410	16,349	9.842	25.982	8.191	20,845
200:032/10/0 200:0889:3	Alan B Shepard Hwy	0.56979624 1.637	1.63730982 62285152	11 65000	 	36,579	38,807	39,049	41,426	24.938	65.784	20.754	52.818
	Atan E Shepard Hwy	1.63730982 1.94053835	53835 62285152	11 65000	1.03	36,579	38,807	11,092	11,787	7.084	18.686	5.895	15,003
	Aran B Sheppard		704987 62285152	11 65000	1.03	36,579	38,807	2,818	2,990	1.800	4.748	1.498	3.812
225:0023:0023 225:0999:N	Atan B Shappard		0.37406471 62285152	11 65000	.03 .03	38,579	38,807	10,885	11,528	6.839	18.303	5.775	14.696
	Pladdeus Suebbard		0.46535432 6Z285152	11 65000	 	38,579	38,807	10,705	11,357	6.837	18.035	5.890	14.480
	0N 547	0.21312868 1.18	1.18433112 81037065	11 13000	1.03	7,316	7,782	7,105	7,538	4.538	11.970	3.777	9.611
	00 00 1	0.39084170 0.48212500	212500 81037074	11 13000	1.03	7,316	7,762	741	786	0.473	1.248	0.394	1.002
	200 55		245044 81037074	11 13000	1.03	7,316	7,762	1,627	1,727	1.040	2.742	0.865	2.202
	1293 S0		0.39084170 81037074	11 13000	1.03	7,316	7,782	1,232	1,307	0.787	2.078	0.655	1.868
			1,66950469 61285083	12 17000	1.02	9,201	9,573	9,490	9,874	5.944	15.880	4.947	12.589
	South Rider Rd	0.02423343 0.65	0.65603078 81285083	12 17000	1.02	9,201	9,573	5,831	6,087	3.652	9.634	3.040	7 735
	Southside Kd	0.00000000 0.02423343 812850	123343 81285083	12 17000	1.02	9.201	9,573	223	232	0.140	0.368	0.118	0 298
285.0349.0349 285.0032.W	Soumside Kd	1.37322759 2.020	2.02690677 81285085	12 17000	102	9,201	9,573	6,014	6,257	3.787	9.936	3,135	7.978
	101 By P888	2.28720470 3.028	3.02979987 81285145	11 26000	1.03	14,632	15,523	10,719	11,372	6.846	18.059	5.697	14.499
	101 by Pass	0.0000000 0.72886695	386695 81285146	11 26000	1.03	14,632	15,523	10,684	11,314	6.811	17.987	5.668	14.425

2323,207 113.837

912.884

2893.531 141.783

1096.918 53.749

Total Emissions
Nonrecurring Congestion Emissions

Total VMTs 1,727,857 1,822,123

2007 VMT 2009 VMT

Total VMTs

(from previous page)

1,727,857 1,822,123

2007

2007

141.783

2009

2009

VOC

VOC

Emissions - Emissions - Emissions -NOx

NOx

Nonrecurring Congestion Emissions

(from previous page)

53.749

44.731

113.837

From SNHPC's Air Quality Analysis

	Year	Scenario	VMTs	VOC Em.	NOx Em.
Ì	2007	Build	6,755,946	4,676	8,286
	2009	Build	7,010,595	3,904	6,781

Emission reductions = Ratio of highway VMTs to total area VMTs * Nonrecurring Congestion Emissions * Effectiveness 2007 VOC Emission reductions = 1727857 / 6755946 * 53.749 * 0.15

2.062

I	–	NOx Em. Red.
2007	2.062	5.439
2009	1.744	4.438

NONATTAINMENT ADEA .	MANCHESTER MARGINAL	OZONE
NUNALIAINMENI AKEA:	MANGEDIER MARGINAL	. UZUNE

	VOC (HCs PORTION MANCHESTER MPO AREA From MPO report) in kg/day Less project benefits	Emissions
2007 BUILD		(2.062)	4,559
2009 BUILD	3,901	(1.744)	3,899
2017 BUILD	2,151		2,151
2025 BUILD	1,701		1,701
·	NOx in kg/ PORTION MANCHESTER MPO AREA From MPO report	day Less project benefits	Emissions
2007 BUILD	8,151	(5.439)	8,146
200 9 BUILD	6,779	(4.438)	6,775
2017 BUILD	2,836		2,836
2025 BUILD	1,688		1,688

Exhibit 10. Towns Located in Nonattainment Area and Modeling Responsibility

Towns located in Nonattainment Area and Modeling Responsibility

Planning		Towns in Ozone Non-				
Commission	MPO	attainment Areas	8 Hour Area	1 Hour Area	1 Hour Area Name	Modeled By
NRPC	NRPC	Amherst	*	*	Bos-Law-Worcester	NRPC
RPC	SPW	Atkinson	*	*	Bos-Law-Worcester	Seacoast MPO
SNHPC	SNHPC	Auburn	*	*	Manchester	SNHPC
SRPC	Seacoast	Barrington		*	Ports-Dover-Roch	Seacoast MPO
SNHPC	SNHPC	Bedford	*	*	Manchester	SNHPC
RPC	Seacoast	Brentwood	*	*	Bos-Law-Worcester	Seacoast MPO
NRPC	NRPC	Brookline	*	*	Bos-Law-Worcester	NRPC
SNHPC	SNHPC	Candia	*	*	Manchester	SNHPC
SNHPC	SNHPC	Chester	*	*	Manchester	SNHPC
RPC	SPW	Danville	*	*	Bos-Law-Worcester	Seacoast MPO
SNHPC	SNHPC	Derry	*	*	Bos-Law-Worcester	SNHPC
SRPC	Seacoast	Dover	*	*	Ports-Dover-Roch	Seacoast MPO
SRPC	Seacoast	Durham	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	SPW	East Kingston	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	Epping	*	*	Manchester	Seacoast MPO
RPC	Seacoast	Exeter	*	*	Ports-Dover-Roch	Seacoast MPO
SRPC	Seacoast	Farmington		*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	Fremont	*	*	Manchester	Seacoast MPO
SNHPC	SNHPC	Goffstown	*	*	Manchester	SNHPC
RPC	Seacoast	Greenland	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	SPW	Hampstead	*	*	Bos-Law-Worcester	Seacoast MPO
RPC	Seacoast	Hampton	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	Hampton Falls	*	*	Ports-Dover-Roch	Seacoast MPO
NRPC	NRPC	Hollis	*	*	Bos-Law-Worcester	NRPC
SNHPC	SNHPC	Hooksett	*	*	Manchester	SNHPC
NRPC	NRPC	Hudson	*	*	Bos-Law-Worcester	NRPC
RPC	Seacoast	Kensington	*	*	Bos-Law-Worcester	Seacoast MPO
RPC	Seacoast	Kingston	*	*	Ports-Dover-Roch	Seacoast MPO
SRPC	Seacoast	Lee		*	Ports-Dover-Roch	Seacoast MPO
NRPC	NRPC	Litchfield	*	*	Bos-Law-Worcester	NRPC
SNHPC	SNHPC	Londonderry	*	*	Bos-Law-Worcester	SNHPC
SRPC	Seacoast	Madbury		*	Ports-Dover-Roch	Seacoast MPO
SNHPC	SNHPC	Manchester	*	*	Manchester	SNHPC
NRPC	NRPC	Merrimack	*	*	Bos-Law-Worcester	NRPC
SRPC	Seacoast	Middleton		*	Ports-Dover-Roch	Seacoast MPO

Towns located in Nonattainment Area and Modeling Responsibility

Planning		Towns in Ozone Non-				
Commission	MPO	attainment Areas	8 Hour Area	1 Hour Area	1 Hour Area Name	Modeled By
NRPC	NRPC	Milford	*	*	Bos-Law-Worcester	NRPC
NRPC	NRPC	Mont Vernon		*	Bos-Law-Worcester	NRPC
NRPC	NRPC	Nashua	*	*	Bos-Law-Worcester	NRPC
RPC	Seacoast	New Castle	*	*	Ports-Dover-Roch	Seacoast MPO
SRPC	Seacoast	New Durham		*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	Newfields	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	Newington	*	*	Ports-Dover-Roch	Seacoast MPO
SRPC	Seacoast	Newmarket	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	SPW	Newton	*	*	Bos-Law-Worcester	Seacoast MPO
RPC	Seacoast	North Hampton	*	*	Ports-Dover-Roch	Seacoast MPO
SRPC	Seacoast	Northwood		*	Manchester	Seacoast MPO
SRPC NRPC	Seacoast NRPC	Nottingham			Manchester	Seacoast MPO NRPC
RPC	SPW	Pelham	*	*	Bos-Law-Worcester	
RPC	Seacoast	Plaistow	*	*	Bos-Law-Worcester	Seacoast MPO
SNHPC	SNHPC	Portsmouth	*	*	Ports-Dover-Roch	Seacoast MPO
		Raymond	*	*	Manchester	SNHPC
SRPC	Seacoast	Rochester	•		Ports-Dover-Roch	Seacoast MPO
SRPC	Seacoast	Rollinsford	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	Rye	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	SPW	Salem	*	*	Bos-Law-Worcester	Seacoast MPO
RPC	SPW	Sandown	*	*	Bos-Law-Worcester	Seacoast MPO
RPC	Seacoast	Seabrook	*	*	Bos-Law-Worcester	Seacoast MPO
SRPC	Seacoast	Somersworth	*	*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	South Hampton	*	*	Bos-Law-Worcester	Seacoast MPO
SRPC	Seacoast	Strafford		*	Ports-Dover-Roch	Seacoast MPO
RPC	Seacoast	Stratham	*	*	Ports-Dover-Roch	Seacoast MPO
NRPC	NRPC	Wilton		*	Bos-Law-Worcester	NRPC
RPC	SPW	Windham	*	*	Bos-Law-Worcester	Seacoast MPO
SNHPC	SNHPC	Weare		*	Manchester	SNHPC
SNHPC	SNHPC	New Boston		*	Manchester	SNHPC
SNHPC	SNHPC	Deerfield		*	Manchester	SNHPC

Exhibit 11. Public Comments

Appendix A
Budgets for all analysis years for Seacoast and Southern non-attainment budget regions

The mobile source emission budgets for the Seacoast Serious (Portsmouth-Dover-Rochester nonattainment area) and Southern Serious (NH Portion of the Boston-Lawrence-Worchester nonattainment area) ozone non-attainment areas shown below were submitted to EPA in the 2003 Attainment Demonstration State Implementation Plan by NH DES. The Seacoast 2003 budget was deemed adequate for use in conformity determinations by EPA on August 19, 1998. The 2007 budget for the Southern area was approved by EPA December 6, 2002 (effective date January 6, 2003)

Southern 2007 budgets:

10.72 tons/day VOC (9,725 kg/day) 21.37 tons/day NOx (19,386 kg/day)

Seacoast 2003 budgets:

6.97 tons/day VOC (6,323 kg/day) 13.68 tons/day NOx (12,410 kg/day)

The carbon monoxide budgets for the Manchester and Nashua CO maintenance areas are 55.83 and 60.13 tons per day respectively. These budgets were submitted to EPA on February 8, 1999 in New Hampshire's redesignation request for these cities. EPA deemed these budgets adequate in a letter dated March 15, 2000.

Appendix B NRPC Report

DRAFT

Nashua Metropolitan Area Air Quality Conformity Analysis 2007-2026

8-Hour Rule



Nashua Regional Planning Commission

DRAFT August 18, 2006

115 Main Street P.O. Box 847 Nashua, NH 03061 (603) 883-0366 www.nashuarpc.org

TABLE OF CONTENTS

INTRODUCTION	C-1
PROJECT LISTING FOR AIR QUALITY ANALYSIS	C-2
TRAFFIC MODEL ASSUMPTIONS	
Other Assumptions	C-6
Projects Included in the NRPC Traffic Model:	
Off-Model Adjustments:	
Summary of Air Quality Analysis Results	
LIST OF TABLES	
TABLE 1: Analysis Years	
TABLE 2: Air Quality Conformity Determination Exempt Project List	
TABLE 3: Air Quality Conformity Determination Not Exempt Project List	
TABLE 4: Number of Trips to South Nashua Commuter Rail Station	
TABLE 5: VMT Saved/South Nashua Commuter Rail Station	
TABLE 6: Vehicle Emissions Reduced/South Nashua Commuter Rail Station	
TABLE 7: Calculate Locomotive Emissions	
TABLE 8: Locomotive Emissions/S. Nashua Station	C-10
TABLE 9: Summary of Calculations at South Nashua Station	C-10
TABLE 10: VMT Saved/Downtown Nashua Commuter Rail Station	C-10
TABLE 11: Vehicle Emissions Reduced/Downtown Nashua Commuter Rail Station	C-11
TABLE 12: Locomotive Emissions/Downtown Station 2026	C-11
TABLE 13: Summary of Calculations at Downtown Nashua Station	C-11
TABLE 14: VMT Saved/Merrimack Commuter Rail Station	C-11
TABLE 15: Vehicle Emissions Reduced/Merrimack Commuter Rail Station	C-11
TABLE 16: Locomotive Emissions/Merrimack Exit 12 - 2026	C-12
TABLE 17: Summary of Calculations at Merrimack Commuter Rail Station	C-12
TABLE 18: Air Quality Benefits from Signal Coordination	C-12
TABLE 19: Air Quality Benefits from Intercity Bus	C-14
TABLE 20: NRPC Ozone Analysis Summary	C-15
TABLE 21: Carbon Monoxide Analysis Summary - City of Nashua	C-15
TABLE 22: 2007 Ozone Analysis - Build	C-15
TABLE 23: 2009 Ozone Analysis - Build	C-16
TABLE 24: 2017 Ozone Analysis - Build	C-16
TABLE 25: 2026 Ozone Analysis - Build	C-16
TABLE 26: 2010 Carbon Monoxide Analysis/City of Nashua - Build	

LIST OF TABLES (cont)

TABLE 27: 2017 Carbon Monoxide Analysis/City of Nashua - Build	C-16
TABLE 28: 2026 Carbon Monoxide Analysis/City of Nashua - Build	C-16
TABLE 29: Air Quality Analysis Exempt Codes/Projects Exempt from Conformity	C-17
TABLE 30: Emission Factors for VOC, NOx, and CO	C-19

INTRODUCTION

As mandated by the Clean Air Act Amendments of 1990 (CAAA), the Transportation Equity Act for the 21st Century (TEA 21) and SAFETEA-LU, Transportation Improvement Programs and Long Range Transportation Plans in areas not in attainment with National Ambient Air Quality Standards (NAAQS) must be found to conform to the State Implementation Plan (SIP). The Nashua Regional Planning Commission (NRPC) area, with the exception of Lyndeborough, Mont Vernon and Wilton is part of the Boston-Manchester-Portsmouth (SE) NH Non-Attainment Area for the 8-Hour Ozone Standard. New Hampshire's SIP establishes mobile source emission budgets for ozone precursors [volatile organic compounds (VOCs) and nitrogen oxides (NOx)] in the States serious 1-hour non-attainment areas. Per guidance from the Environmental Protection Agency and the Federal Highway Administration MPOs must use the 1-hour budgets to demonstrate conformity under the new 8-hour standard prior to establishment of new 8-hour budgets. MPOs must also review the air quality analyses from all MPOs that are within the 8-hour non-attainment area (there are four) to determine if the region-wide emissions conform to the SIP. This process is orchestrated by NHDOT. The CAAA requires a demonstration of conformity to these budgets as part of the transportation planning process. A summary of the results of this analysis can be found in Table 20.

In addition to the region being in non-attainment for ground level ozone, the City of Nashua was designated non-attainment for carbon monoxide (CO) standards in the 1980s. The City demonstrated attainment with the standard in the mid-1990s and now must continue to comply with an established maintenance plan. The plan contains a mobile source emission budget for CO and a demonstration of conformity to this budget must be made. A summary of the results of this analysis can be found in Table 21.

The air quality analysis is conducted by using the traffic data and speed outputs of the NRPC traffic model. The NRPC traffic model includes all twelve communities within the planning region and is calibrated to replicate existing traffic conditions. The outputs from the model are inserted into a spreadsheet containing emission factors generated by the New Hampshire Department of Environmental Services using the most recent version of the Environmental Protection Agency's mobile source emissions model which is MOBILE 6.2. Summertime conditions are used for the ozone analysis, when this pollutant reaches its peak generation. For carbon monoxide, wintertime conditions represent the annual peak.

A regional land use growth analysis for the NRPC area has been conducted through 2026. Interim year land use forecasts are based on an interpolation of the 2026 projections. Analysis years for ozone are 2007, 2009, 2017 and 2026. The analysis years for carbon monoxide are 2010, 2017 and 2026. The final analysis year represents the long-range planning horizon for the NRPC Transportation Plan.

The NHDOT will integrate the analysis results from other regions with those from the NRPC area to produce a final finding of air quality conformity for the Boston-Manchester-Portsmouth (SE) NH Non-Attainment Area for the 8-hour Ozone Standard. The analysis will determine whether the critical test of conformity is met for each analysis year.

TABLE 1: Analysis Years

Ozone Non-Attainment Area	Classification	Analysis Year
Southern NH		
Amherst, Brookline, Hollis, Hudson,		
Litchfield, Merrimack, Milford,	Moderate	2007, 2009, 2017, 2026
Nashua, Pelham		
CO Non-Attainment Area	Classification	
Nashua	Maintenance	2010, 2017, 2026

PROJECT LISTING FOR AIR QUALITY ANALYSIS

The next step was to determine the list of transportation projects subject to air quality analysis and the projected year in which the projects will come on line. Table 2 lists projects that are exempt from the air quality conformity process. Table 3 lists projects that are not exempt from the air quality conformity process. Exempt and not exempt projects are defined in the following manner:

Exempt - The project falls into one or more of the defined exempt categories shown in Table 29 and is determined to have either little or no impact upon air emissions, or has beneficial air quality impacts.

Not Exempt - The project is determined to have an impact upon air quality. The project must therefore be included in the future build scenario. Not Exempt projects that have received all necessary approvals from State and Federal agencies are included in future baseline scenarios.

TABLE 2: Air Quality Conformity Determination Exempt Project List

Project Number	Community	Route/Facility	Project Description	Exempl Code
None	Amherst	Caldwell Dr.	Reconstruct crossing & signals @ B&M RR	E-8
13488	Hollis	Main St, Ash St, Broad St	Sidewalks	E-33
04-25TE	Hudson	Hudson Center	Relocate Train Depot	E-28
13894	Hudson	NH 102	Construct sidewalks and bike lanes 4,000' between Evergreen and Megan	E-33
13100	Hudson	NH 3A	Construct sidewalks from Birch to Central St	E-33
13743	Hudson	NH 102	West Road/Robinson Rd intersection. Widen for turn lanes, signals, truck lane	E-51
13353	Hudson	Melendy Rd.	Bridge Rehab over First Brk.	E-19
13354	Hudson	County Rd.	Bridge Rehab over Second Brk.	E-19
13337	Hudson- Londonderry	NH 102	Level & 1" overlay from Nh3A-Buttrick Rd. in Londonderry	E-10
12802	Lyndeborough	Old Temple Rd.	Replace bridges over Stony Brook	E-19
14251	Lyndeborough	Gulf Rd.	Replace Bridges over Stony Brook	E-19
04-36TE	Merrimack	DW Highway	Town Center sidewalk project	E-33
12105	Merrimack	FEE Turnpike	Bridge Rehab over Souhegan River	E-19
13923	Merrimack	McGraw Bridge Rd.	Bridge Replacement over Baboosic Brk	E-51
14091	Merrimack	Bedford Rd.	Bridge Replacement over Baboosic Brk	E-51
13320	Merrimack- Bedford	US 3	repave/reconstruct from Bedford Rd. north approximately 4.1 miles.	E-10
13964	Merrimack- Nashua	Manchester St.	Bridge replacement over Pennichuck Reservoir	E-19
5303-MP-2	Metro Planning	Nashua	Nashua MPO Transit Planning	E-36
085-MP-2	Metro Planning	Metro Planning		E-36
None	Milford	Union St.	Reconstruct signal & crossings @ B&M RR USDOT AAR #884-288R	E-1

DRAFT Air Quality Conformity Analysis for the NRPC Region 2007-2026 STIP (8-Hour Rule) August 18, 2006 STIP 8-Hour Rule

Project Number	Community	Route/Facility	Project Description	Exempt Code
None	Milford	NH 101A & NH 13	Improvements @ "Oval" based on ongoing traffic studies	E-10
14078	Milford	South St.	Reconstruct crossing, approaches & signals @ B&M RR USDOT AAR #884-286C	E-1
10136	Milford to Nashua	NH 101A	Roadway improvements from NH 101 to FEE Turnpike (7.5 miles). Construction projects to be determined by corridor study	E-53
None	Nashua	Main St.	Reconstruction from Hollis St to Orchard Ave (1.09 miles)	N/A
None	Nashua	Boire Field	Various capital improvements, runway rehab, etc.	N/A
None	Nashua	Transit	Preventative Maintenance	E-21
Project Number	Community	nity Route/Facility Project Description		Exempt Code
None	Nashua	Transit	Jobs access reverse commute (JARC) funds	E-21
None	Nashua	Transit	Non-revenue vehicles	E-22
None	Nashua	Transit	Capital equipment	E-24
None	Nashua	Transit	Bus garage	E-31
13931	Nashua	NH 130	Broad St reconstruction from Coburn Ave to Coliseum Ave.	E-53
14189	Nashua- Merrimack	US 3	Pavement Rehab & safety work from Henri Burque Hwy north to Greeley St	E-10
13931	Nashua	Broad St.	Reconstruct west segment from Turnpike to Hollis line	E-53
None	Nashua to Concord	Turnpike	Turnpike resurfacing 2005-2007	E-53
14231	Nashua to Concord	Turnpike	Install emergency reference markers from Mass S/L to Exit 14	E-44
12270	Statewide		Remote sensing applications for NH archeology (94-05TE)	E-38
13813	Pelham	Tallant Rd.	Bridge Replacement over Beaver Brook.	E-19
13805	Pelham- Windham	Castlehill Rd.	Bridge replacement over Beaver Brook.	E-19
13906	Wilton	Town Center	Construct sidewalks in Town Center	E-33

TABLE 3: Air Quality Conformity Determination Not Exempt Project List

Opening Analysis Year	Construct FY	Scenario Baseline Build)	Community	Route/ Facility	' Project Description		Project No.
2026	2016	Build	Amherst, Milford Wilton	NH101 Improvements	Safety improvements on Nh101	Yes	13692
2007	2007	Build	Nashua	Route 3	Inter city bus service Nashua- Boston	Off model	None
2017	2010	Build	Hudson	Downtown	Signal Coordination	Off model	06- 10CM
2026	2016	Build	Hudson	Circumferential Highway	Construct bridges (5): Old Derry Rd., Barrets Hill Rd.,	Yes	10625 Q

Opening Analysis Year	Construct FY	Baseline Build)	Community	Route/ Facility	Project Description	nclude n Mode	Project No.
		,			Glover Brook		
2026	2016	Build	Hudson	Circumferential Highway	NH 102 to NH 111 and roadway @ NH 111		10625R
2007	2007	Build	Litchfield	Albuquerque	Construct 0.3 mile segment from April Dr to NH 3A including intersection @ NH3A	Yes	2740
2017	2015	Build	Litchfield	Albuquerque	Connect Albuquerque Avenue to Hillcrest		3280
2017	2016	Build	Litchfield	Circumferential Highway	NH3A Construct Industrial Dr. off of NH3A	Yes	10625T
2017	2004	na	Litchfield – Hudson	Circumferential Highway	Demo 2 buildings	na	10625 D
2017	2014	Build	Litchfield – Hudson	Circumferential Highway	Construct mainline, ramps, toll booth, NH 3A improvements	Yes	10625 K
2017	2014	Build	Litchfield – Hudson	Circumferential Highway	Construct mainline & ramps from NH 3A to NH 102	Yes	10625P
2017	2014	Build	Litchfield – Nashua	Circumferential Highway	Construct northern river crossing over Merrimack River	Yes	10625 H
2017	2014	Build	Merrimack – Nashua	Circumferential Highway	Construct bridges (4), mainline & ramps over Pennichuck Brook	Yes	10625I
2026	2016	Build	Nashua – Merrimack	Circumferential Highway	Construct mainline, ramps, US 3 roadway improvements & ramps (2)	Yes	10625L
2026	2016	Build	Merrimack – Nashua	Circumferential Highway	Construct for NHCH & FEE Turnpike: Mainline, ramps & bridges (5) @ Exit 9 interchange	Yes	10625 M
2026	201	Build	Merrimack	Circumferential Highway	Construct mainline, US 3 to Exit 9 and bridges (2), widen Fee Tpke.	Yes	10625 N, 10625 U
2026	2012	Build	Merrimack	FEE Turnpike/US 3	Park'n'Ride, 250 spaces — intermodal facility near RR facility	Off- model	12259
2017	2014	Build	Merrimack	US3	Capacity improvements to improve traffic flow @ intersections as identified in recent studies by Town of Merr.	Yes	3279
2017	2015	Build	Merrimack- Bedford	FEE Tpke	Widen Tpke. To 3-lane typical b/t Exit 11 to Bedford Toll Plaza	Yes	13761
2017	2014	Build	Nashua	FEE Tpke	New SB off Ramp @ Exit 36 to connect w/Pheasant Lane Mall		none
2017	2013	Build	Nashua	E. Hollis St.	Reconstruct from Main St. to Hudson T/L to improve capacity	Yes	none
2017	2010	Build	Nashua	NH101A	Widen from Celina Ave. to	Yes	10136



Opening Analysis Year	Construct FY	Baseline Build)	Community	Route/ Facility	Project Description	nclude n Mode	Project No.
					Amherst St. Mall to 7 lanes		Α
2017	>2010	Build	Nashua	Demolition, construction, landscaping, etc. Parkway		Yes	10040 A, G,H,I,J -N,P,S- V
2009	2008	Build	Nashua	FEE Turnpike Construct 1,000-space Park'n'Ride near B&M RR with rail platform. Facility will be used for carpool, vanpool and passenger rail modes.		Yes	13117 98-13CM
2007	2005	Build	Nashua	DW Hwy	Optimization of 20 traffic signals (98-12CM).	Yes	13130
2010	2010	Build	Nashua	Various	Traffic signals, expand closed loop system to include additional 30 intersections	Off model	14432
2009	2009	Build	Nashua	Transit	Extend hours of operation of bus service. Project to be implemented after 2007 analysis year. No A/Q credits taken for 2017 & 2025 b/c project will continue after first 3 years only if warranted by rider ship levels.	Yes	06- 13CM
2010	2008	Build	Nashua	Commuter Rail	Commuter rail extension (00-12CM, 02-22CM)	Off model	13514, 13875, 68000
2017	2012	Build	Nashua- Hudson	Circumferential Highway	Design north segment between NH 111 & FEE Turnpike — Phases 1, 2 & 3	Yes	10644

TRAFFIC MODEL ASSUMPTIONS

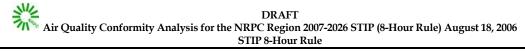
The NRPC Transportation Model was updated in 2003 and now uses TRANSCAD software. The TRANSCAD model network is comprised of roadway segments represented in a link file. Many new links have been added to the model network to reflect the improved capability of the new software. In order to remain consistent with the information used to establish the current mobile source budget, only those links that were in the old model were activated for this analysis. Once a new budget has been established for the 8-hour ozone standard the conformity analysis will include all links in the new model.

In conducting the traffic model analysis, speed is a critical element because there is a specific emission factor (measured in grams per vehicle mile) associated with each speed for each emission type. The traffic model assigns an average congested speed* to each link on the transportation network. Each link is then assigned an emission factor** based on that speed. The emission factor is multiplied by the Vehicle Miles Traveled (VMT) *** for each link to determine the total volume of emissions per day**** for that link.

^{*}Congested speed is a model output that represents a peak period condition along the highway link.

^{**}Emission factors are provided by the NH Department of Environmental Services.

^{***}VMT's are calculated by multiplying the link distance by the daily traffic volumes.



****Converted to kilograms per day.

OTHER ASSUMPTIONS

Most of the non-exempt highway projects are analyzed by coding them into the NRPC traffic model. Several, however, are added as off-model adjustments to the air quality analysis spreadsheet. A description of the manner in which projects were analyzed is provided on the following pages.

PROJECTS INCLUDED IN THE NRPC TRAFFIC MODEL:

ANALYSIS YEAR 2007

<u>Albuquerque Avenue (north segment) (NHDOT project #2740) -</u> Construct 0.3 mile segment from April Drive to NH 3A including intersection at NH 3A.

<u>Daniel Webster Highway Mitigation Project, Nashua (NHDOT #13130) -</u> The road element consists of making optimization improvements to 20 signalized intersections. It was assumed that a 3-mph increase in average vehicle speed would result along Daniel Webster Highway between Graham Drive and the state line and along Spit Brook Road from Daniel Webster Highway to west of Tara Blvd. The assumed speed increase results primarily from the optimization of traffic signals in the area.

ANALYSIS YEAR 2009

<u>Commuter Rail Station - Spit Brook Rd (NHDOT Project #13117)</u> - Addition of a commuter rail station off East Spit Brook Rd in South Nashua. Model will reflect an increase in trip attractions in the proper zone.

ANALYSIS YEAR 2010

<u>Commuter Rail</u> - Purchase Commuter Locomotive & Coaches (Project # 13514), provide 3 years operating expenses (Project # 13875).

ANALYSIS YEAR 2017

<u>Albuquerque Avenue (central section) (NHDOT Project #3280)</u> - Missing segment of Albuquerque Ave to be completed. This will connect Albuquerque Avenue to Hillcrest in the central section.

Broad Street Parkway (NHDOT Project #10040 A, G, H, I, J-N, P, S-V) - 2-lane access controlled road connecting West Hollis St to Broad St, providing another east-west connection between downtown Nashua and the Everett Turnpike Includes a connection to the Millyard near the Pine St Extension and an intersection with Franklin St. Also involves reconfiguring Temple, Pearl and Factory Streets to 2-way traffic, and realigning the Hellenic Circle into a typical grid pattern. Model will reflect increased capacity. Speed set at 35 mph.

<u>Circumferential Highway (NHDOT Project #10625 H, I, K, P, T) –</u> Construct segment of highway that includes mainline, ramps, toll booth, NH3A improvements. Construct mainline from NH3A to NH102. Construct northern river crossing over Merrimack River from NH 3A to NH 102. Construct bridges (4), mainline and ramps over Pennichuck Brook, construct Industrial Drive off of NH3A. Model will reflect these improvements.

East Hollis Street Reconstruction - Reconstruct from Main Street to Hudson T/L to improve capacity.

<u>FE Everett Turnpike Widening (NHDOT Project # 13761)</u> - FEE Turnpike to be widened to 3 lanes in either direction between Exits 8 and 11. Model will reflect increased capacity.

<u>Hudson Intersection Improvements - Speeds approaching these intersections in Hudson will be increased to portray improved flow:</u>

-Greeley St / Kimball Hill Rd / NH 111

-Chase St / NH 111

-Lowell Rd / County Rd

-County Rd / Belknap Rd

<u>Merrimack/US3</u> - Capacity improvements to improve traffic flow. Model will reflect increased capacity.

<u>US3-Exit 36 -</u> Addition of southbound off-ramp to Exit 36 just across the Massachusetts state line to provide southbound access from the Everett Turnpike to the Pheasant Lane Mall. Model will reflect new interchange and capacity.

<u>Hollis 4-Corners Intersection Improvements -</u> Addition of turn lanes at the signalized intersection of NH Route 122 and NH Route 130

NH101A Capacity Improvements (NHDOT Project #10136A) - Segment of NH101A in Nashua from Celina Ave to Somerset Parkway becomes a 7-lane cross-section. Model will reflect increased capacity.

ANALYSIS YEAR 2026

<u>Circumferential Highway (NHDOT Project#10625 Q, R, L, M, N, U) –</u> Construct bridges (5) at Old Derry Road, Barrets Hill Road and Glover Brook. Construct main line ramps at NH102, NH 111 and roadway at NH111. Construct mainline ramps and bridges (5) at Exit 9 interchange.

<u>NH 101 Reconstruction (NHDOT Project #13692) -</u> Widening of NH 101 between west end of bypass and Bedford town line to 4 lane access controlled highway. Also includes new section of bypass (2-lane) to run behind Elm St and end near Wilton-Milford line. Speed set at 55 mph.

OFF-MODEL ADJUSTMENTS:

Commuter Rail Project - Nashua, NH to Lowell, MA (Project # 00-12CM)

This project entails the introduction of commuter rail service in the vicinity of the FEE Turnpike/Daniel Webster Exit 1 interchange (South Nashua) in the year 2009, and downtown Nashua in 2025. The commuter rail system will be extended to the vicinity of the Daniel Webster Highway/F.E.E. Turnpike Exit 12 interchange in Merrimack by the year 2025¹.

1. Turnpike/Daniel Webster Exit 1 Station - The distance between the Massachusetts State Line and this station is approximately 1 mile. According to the Major Investment Study (MIS) for the Nashua Passenger Rail Service, approximately 926 daily riders will use the proposed station. Of these, the number of *diverted* car trips to the South Nashua station would be 475. Diverted trips are the number of cars no longer traveling to Lowell to use the train. Instead, these cars will be driven to the station stop in Nashua. The number of *new* trips to the South Nashua station would be 451. New trips are the number of cars that will no longer travel all the way to Boston. Instead, these cars will be driven to the station stop in Nashua, where the occupants will become 'new' train riders. For both diverted and new trips, the vehicle miles saved per trip are equal to the round trip distance (2 miles) from the proposed South Nashua station location to the New Hampshire/Massachusetts boarder. These vehicles no longer will be driven all the way to the boarder and beyond. The vehicle trips (VMTs) added by commuters traveling to the South Nashua station are accounted for in the NRPC traffic model. The service is scheduled to begin in 2009.

Calculate vehicle trips saved

Based on the MBTA growth rates for commuter rail, the expected ridership increase will be approximately 5% per year. This figure is about the same as the ridership growth rate indicated in the Lowell to Nashua Commuter Rail Extension Project Draft Environmental Assessment. To determine the number of vehicle trips saved for each analysis year the following formula was used:

of Trips = $(1.05^{\circ} \times 926)$ where 1.05 = 5% growth rate per year Y = number of years into future from 2007

Assumptions are taken from Major Investment Study for Nashua Passenger Rail Service, October 1999, NRPC



TABLE 4:	Number of	Trips to South	Nashua Com	muter Rail Station
----------	-----------	----------------	------------	--------------------

Analysis Year	Formula	# of Trips
2007	Given in MIS	926
2009	$(1.05^2 \times 926)$	1,021
2010	$(1.05^3 \times 926)$	1,072
2017	$(1.05^{10} \times 926)$	1,508
2026	$(1.05^{19} \times 926)$	2,340

Calculate VMT saved

- It is assumed that the VMT saved when commuters in South Nashua drive to the rail station rather than into Massachusetts is 2 miles (round trip).
- Vehicle occupancy is assumed to be 1.2 people per car.

TABLE 5: VMT Saved/South Nashua Commuter Rail Station

Analysis Year	# of Trips	Formula	VMT's Saved
2007	926	(926 / 1.2) x 2	1,543
2009	1,021	(1,021 / 1.2) x 2	1,702
2010	1,072	(1,072 / 1.2) x 2	1,787
2017	1,508	(1,508/ 1.2) x 2	2,514
2026	2,340	(2,340 / 1.2) x 2	3,900

Calculate Emissions Reductions Due to VMT Saved

- It is assumed that these vehicles average 60.7 mph. Emission factors (Freeway-Light Duty Vehicles) provided by NHDES.
- Emissions reduction is calculated using this formula:

Emissions reduced = (VMT saved x emission factor) / 1000 = kg/day

TABLE 6: Vehicle Emissions Reduced/South Nashua Commuter Rail Station

			Emission Factor		Car E	missions Re	duced	
Analysis	Speed	VMT	HC	CO	NOX	HC	CO	NOX
Year						Kg/day	Kg/day	Kg/day
2009	60.7	1,702	.489	na	.573	.832	na	.974
2010	60.7	1,787	na	16.355	na	Na	29.221	na
2017	60.7	2,514	.238	12.889	.231	.598	32.401	.580
2026	60.7	3,900	.165	11.852	.143	.643	46.221	.559

Calculate Train Miles Added Due to Rail to South Nashua station:

- Train miles added in New Hampshire = 8 round trips x 1.6 miles in NH = 12.8 miles
- Locomotive emission factors come from Table 9 of document EPA420-F-97-051.
- The Central Transportation Planning staff of the Boston Metropolitan Planning Organization (www.ctps.org/bostonmpo) uses **3 gallons per mile** for the amount of fuel used by a locomotive pulling a 6-car commuter train.

Calculate Emissions Added by Locomotive:

TABLE 7: Calculate Locomotive Emissions

Locomotive Emission Factors	HC	CO	NOX
(grams per gallon)	Gms/gal	Gms/gal	Gms/gal
2009	9.4	n/a	168.3
2010	n/a	27.4	n/a
2017	8.3	27.4	146.5
2026	7.3	27.4	129.0

TABLE 7: Calculate Locomotive Emissions (cor	1t.)	
--	------	--

111DEE // Culculate Edealiotive Emissions (cont.)							
Locomotive Emission 's:							
grams per train mile	HC	CO	NOX				
(grms/gal x gal/mile)	Gm/mile	Gm/mile	Gm/mile				
2009	28.2	n/a	504.9				
2010	n/a	82.2	n/a				
2017	24.9	82.2	439.5				
2026	21.9	82.2	387.0				

To determine the emissions from the locomotive for each analysis year the following formula was used: (Emissions factor in grams per train mile x 12.8 train miles) / 1,000 = Emissions (kg/day)

TABLE 8: Locomotive Emissions/S. Nashua Station

Year	HC	CO	NOX
	(kg/day)	(kg/day)	(kg/day)
2009	.361 kg/day	n/a	6.463 kg/day
2010	n/a	1.052 kg/day	n/a
2017	.319 kg/day	1.052 kg/day	5.626 kg/day
2026	.280 kg/day	1.052 kg/day	4.954 kg/day

TABLE 9: Summary of Calculations at South Nashua Station

	Emissions REDUCED due to reduced vehicle VMT (kg/day)			Emissions A	ADDED d (kg/day)	ue to train	Net Emissi crease (+) c		
YEAR	HC	CO	NOX	HC	CO	NOX	HC	CO	NOX
2009	.832	na	.974	0.361	N/A	6.463	.471	Na	+ 5.488
2010	N/A	29.221	N/A	N/A	1.052	N/A	N/A	28.169	na
2017	.598	32.401	.580	0.319	1.052	5.626	.279	31.349	+ 5.046
2026	.643	46.221	.559	0.280	1.052	4.954	.363	45.169	+ 4.394

2. NASHUA DOWNTOWN STATION: The commuter rail line will be extended to downtown Nashua in 2025 (first analysis year will be 2026). The distance between the Massachusetts State Line and Exit 5 on the Everett Turnpike in Nashua is 4.5 miles. It is assumed that there will be 250 riders from the downtown station and that the VMT's saved when commuters no longer travel to the Massachusetts border is 9 miles (round trip). The vehicle trips (VMT's) added by commuters traveling to the downtown station is accounted for in the NRPC traffic model. The distance the train must travel is 7.5 miles (round trip between south Nashua station and downtown station).

Calculate VMT saved:

- It is assumed that 250 passengers will board at the Downtown Nashua station in 2026.
- It is assumed that the VMT saved when commuters in South Nashua drive to the rail station rather than into Massachusetts is 9 miles (round trip).
- Vehicle occupancy is assumed to be 1.2 people per car.

TABLE 10: VMT Saved/Downtown Nashua Commuter Rail Station

	Analysis Year	# of Trips	Formula	VMT's Saved
I	2026	250	(250 / 1.2) x 9	1,875

Calculate Emissions Reductions Due to VMT Saved

- It is assumed that these vehicles average 60.7 mph. Emission factor (Freeway-light duty) provided by NHDES.
- Emissions reduction is calculated using this formula:

Emissions reduced = (VMT saved x emission factor) / 1000



TABLE 11: Vehicle Emissions Reduced/Downtown Nashua Commuter Rail Station

			Emission Factor			Car Emissions Reduced		
Analysis	Speed	VMT	HC	CO	NOX	HC	CO	NOX
Year						Kg/day	Kg/day	Kg/day
2026	60.7	1,875	.165	11.852	.143	.309	22.222	.269

Calculate Emissions Added by Locomotive between South Nashua and Downtown Nashua station:

- Train miles added in New Hampshire = 8 round trips x 7.5 miles in NH = 60 miles.
- Emissions factor from Table 7.
- Formula for calculating emissions = (60 train miles added x emissions) / 1,000

TABLE 12: Locomotive Emissions/Downtown Station 2026

Year	HC	CO	NOX
	(kg/day)	(kg/day)	(kg/day)
2026	1.314 kg/day	4.932 kg/day	23.22 kg/day

TABLE 13: Summary of Calculations at Downtown Nashua Station

	111DEE 13. Summary of Calculations at Downtown (Vasilda Station								
	Emissions	REDUCEI	due to	Emissions ADDED due to train			Net Emissions reductions or in-		
	reduced vehicle VMT			(kg/day)			crease (+) due to rail project		
	(kg/day)						(kg/day)		
YEAR	HC	CO	NOX	HC	CO	NOX	HC	CO	NOX
2026	.309	22.222	.269	1.314	4.932	23.22	+1.005	17.290	+22.951

3. MERRIMACK EXIT 12 STATION - The distance between the Massachusetts State Line and Exit 12 on the Everett Turnpike in Merrimack is 15 miles. It is assumed that the VMT's saved when commuters in Merrimack travel to the rail station near Exit 12 instead of to the Massachusetts boarder is 30 miles (round trip). It is assumed that there will be 250 riders from the Merrimack station. The distance the train must travel is 17.8 miles (round trip between downtown station and Merrimack station). The vehicle trips (VMT's) added by commuters traveling to the Merrimack station is accounted for in the NRPC traffic model.

Calculate VMT saved:

- It is assumed that 250 passengers will board at the Merrimack station in 2025.
- It is assumed that the VMT saved when commuters drive to the Merrimack station rather than into Massachusetts is 30miles (round trip).
- Vehicle occupancy is assumed to be 1.2 people per car.

TABLE 14: VMT Saved/Merrimack Commuter Rail Station

Analysis Year	# of Trips	Formula	VMT's Saved
2026	250	(250 / 1.2) x 30	6,250

Calculate Emissions Reductions Due to VMT Saved:

- It is assumed that these vehicles average 60.7 mph. Emission factor (Freeway-light duty) provided by NHDES.
- Emissions reduction is calculated using this formula:

Emissions reduced = (VMT saved x emission factor) / 1000

TABLE 15: Vehicle Emissions Reduced/Merrimack Commuter Rail Station

			Emission Factor		Car E	missions Re	duced	
Analysis	Speed	VMT	HC	CO	NOX	HC	CO	NOX
Year	_					Kg/day	Kg/day	Kg/day
2026	60.7	6,250	.165	11.852	.143	1.031	74.074	.896

Calculate Emissions Added by Locomotive between Downtown Nashua and Exit 12 station:

- Train miles added in New Hampshire = 8 round trips x 17.8 miles in NH = 142.4 miles
- Emissions factor from Table 7.
- Formula for calculating emissions = (142.4 train miles added x emissions) / 1,000

TABLE 16: Locomotive Emissions/Merrimack Exit 12 - 2026

Year	HC (kg/day)	CO (kg/day)	NOX (kg/day)
2026	3.119 kg/day	11.705 kg/day	55.109 kg/day

TABLE 17: Summary of Calculations at Merrimack Commuter Rail Station

	Emissions REDUCED due to reduced vehicle VMT (kg/day)			Emissions ADDED due to train (kg/day)			Net Emissions reductions or increase (+) due to rail project (kg/day)		
YEAR	HC	CO	NOX	HC	CO	NOX	HC	CO	NOX
2026	1.031	74.074	.896	3.119	11.705	55.109	+2.088	62.369	+54213

City of Nashua Wireless Signal Coordination (Project # 04-30CM)

Scope of Project: This project will build a traffic management system for the city, interconnecting all 89 traffic signals to a central station, including 30 signals that are currently off line. This would allow the city to expand its closed loop signal network, creating new timing plans for its major corridors with an emphasis on vehicle progression. The city would also look at developing one or more traffic adaptive closed loop systems using advanced video detection. The entire system would be compatible with future ITS technology.

It was assumed that the greatest amount of emissions benefit from this project would result from the inclusion of the 30 intersections that are currently off-line (not coordinated). The assumption is that if these signals were to be coordinated, delay at these intersections would be improved and therefore emissions would be reduced. It was not possible to gather field data from all of those intersections. Instead, link speeds, link distances and traffic volumes in the vicinity of the 30 signalized intersections for the analysis years 2010 and 2017 were obtained from the NRPC traffic model. This data was then used in an off-model calculation.

The off-model calculation assumed a 10% increase in link speeds². The results are as follows:

TABLE 18: Air Quality Benefits from Signal Coordination

	VOC (kg/day)	NOx (kg/day)	CO (kg/day)
2010 w/out signalization	n/a	n/a	2,977.04
2010 with signalization	n/a	n/a	3,002.04
Total 2010:	n/a	n/a	+25.00 kg/day
2017 w/out signalization	65.68	79.26	2,352.89
2017 with signalization	63.96	79.5	2,373.38
Total 2017:	- 1.72 kg/ day	+ 0.24 kg/day	+ 20.50 kg/day

² Assumptions are based on CMAQ application CM04-30

NHDOT Inter City Bus Service

Scope of Project: The NHDOT will initiate commuter bus service from Exit 8 and Exit 6 in Nashua to Boston-South Station and Logan Airport. This project will include the purchase of 4 commuter coaches, provide 9 round trips each weekday, and make capital improvements to the park and ride lot and Welcome Center to provide enhanced security, ticketing facilities and other passenger amenities.

Assumptions and notes:

New busses would meet the Heavy Duty Diesel 2007 emissions certification; Passenger assumptions are based on ridership of previous service in this location; Average SOV travel speed = 55mph; Average bus travel speed = 55mph

Busses making nine round trips per day between Nashua Park and Rides and Boston:

- 7 miles from Exit 6-8 area to State Line;
- 39 miles from State line to South Station;
- 4 miles from South Station to Logan Airport;

Busses stored in Concord – deadhead miles = 3 buses each way @ 30 miles = 180 miles per day; Average SOV occupancy = 1.1;

VMTs added by bus in NH 306;

SOV trips reductions:

Year	<u>2007</u>	2009	<u>2010</u>
Annual bus passenger trips	81,865	131,941	131,941
Daily bus passenger trips	224	361	361
SOV trips	204	328	328
Ave trip length in NH	7	7	7
VMTs removed in NH	1,428	2,296	2,296

Light Duty (Freeway) Emission Factors

	VOC (kg/day)	NOx (kg/day)	CO (kg/day)
2007	0.604	0.695	n/a
2009	0.497	0.559	n/a
2010	n/a	n/a	15.851

Bus (Freeway) Emission Factors

	VOC (kg/day)	NOx (kg/day)	CO (kg/day)
2007	0.341	18.621	n/a
2009	0.272	15.970	n/a
2010	n/a	n/a	2.194

Emissions Reduced/added:

	VOC (kg/day)	NOx (kg/day)	CO (kg/day)
2007 NH Emissions			
Light duty emissions reduced in NH:	.863	.992	n/a
Bus emissions added in NH:	<u>.104</u>	<u>5.698</u>	<u>n/a</u>
Emissions reduced (-)/added (+):	75 8	+ 4.706	n/a
	VOC (kg/day)	NOx (kg/day)	CO (kg/day)
2009 NH Emissions	, 0, ,,	, 0,	. 0. 27
Light duty emissions reduced in NH:	1.141	1.283	n/a
Bus emissions added in NH:	<u>.083</u>	4.887	n/a
Emissions reduced (-)/added (+):	- 1.0 58	+ 3.603	n/a

2010 NH Emissions	VOC (kg/day)	NOx (kg/day)	CO (kg/day)
Light duty emissions reduced in NH:	n/a	n/a	36.394
Bus emissions added in NH:	<u>n/a</u>	<u>n/a</u>	<u>.671</u>
Emissions reduced (-)/added (+):	n/a	n/a	- 35.723

TABLE 19: Air Quality Benefits from Intercity Bus

	VOC (kg/day)	NOx (kg/day)	CO (kg/day)
2007 NH Emissions reduced (-)/added (+)	758 kg/day	+ 4.706 kg/day	n/a
2009 NH Emissions reduced(-)/added(+)	- 1.058 kg/day	+ 3.603 kg/day	n/a
2010 NH Emissions reduced(-)/added(+)	n/a	n/a	- 35.723 kg/day

City of Nashua, NH Nashua Transit System CMAQ Project (Project # 06-13CM)

The objective of this project is to increase the frequency of service (decrease "headways") on Citybus Routes 2 and 6. This will increase the total vehicle miles (and associated emissions) traveled by bus in the City, but decrease the number of vehicles miles (and associated emissions) traveled in personal vehicles.

The methodology for the calculating air quality benefits is as follows:

- The length of the additional bus routes was to calculate the additional emissions that will result from the additional bus trips.
- The length of single occupancy vehicle trips saved was used to calculate the emissions that will no longer be produced because people will ride the bus and not drive their car.
- The difference between the additional bus emissions and the reduced single occupancy vehicle emissions represents the emissions saved by this project.

SUPPORTING DATA AND CALCULATIONS

Emissions ADDED Due to Increased Number of Bus Runs:

Route #'s 2 & 6:	# of runs per day	Average length of route (mi.)	Added weekday fleet miles	Average speed of bus (mph)	facto	s emissi ors (gr/n R=14,0	nile)	by ac	sions a Iditiona s (kg/d	l bus
					VOC	Nox	CO	VOC	Nox	CO
2009	24	14.5	348	14	0.41	4.07	n/a	0.14	1.42	n/a
2010	24	14.5	348	14	n/a	n/a	1.70	n/a	n/a	0.59
2012	24	14.5	348	14	0.35	2.67	n/a	0.12	0.93	n/a

Emissions SUBTRACTED Due to Reduction in Single Occupancy Vehicle (SOV) Trips:

	# of SOV trips	Average trip length	Total SOV miles	Average		-		re	missior duced l	by
Route #'s 2 & 6:	saved per day	saved (mi.)	saved/da y	speed of SOV		/ emiss ors (gr/r			nating : s (kg/d	
					VOC	Nox	CO	VOC	Nox	CO
2009	119	4.91	584.29	25	0.59	0.59	n/a	0.34	0.35	n/a
2010	179	4.91	878.89	25	n/a	n/a	0.01	n/a	n/a	8.87
2012	179	4.91	878.89	25	0.43	0.64	n/a	0.38	0.56	n/a

Net Impact of Decreased Headways Equals the Difference Between Emissions Added By Increased Bus Trips and Emissions Reduced By Elimination of Single Occupancy Vehicle Trips:

	VOC (kg/day)	Nox (kg/day)	CO (kg/day)
2009	-0.20	1.07	n/a
2010	n/a	n/a	-8.28
2012	-0.26	0.37	n/a

^{*}Negative # means that there is an **IMPROVEMENT** in air quality.

Notes:

- 1 Transit Vehicle is Diesel, GVWR = 14,050, MOBILE model vehicle category = HDDV4
- 2 Emission factors provided by NHDES August 18, 2005 for use in Round 8 CMAQ Air Quality Analysis. All emission factors are in grams per mile. Last updated 8/24/05 by Becky Ohler.

SUMMARY OF AIR QUALITY ANALYSIS RESULTS

Table 20 summarizes the results of the summertime ozone analysis for the NRPC portion of the **Boston/Manchester/Portsmouth (Southeastern NH) Non-Attainment Area for the 8-hour Ozone Standard**. The NHDOT will integrate the analysis results from other regions with those from the NRPC area to produce a final finding of air quality conformity for the non-attainment area. The analysis will determine whether the critical test of conformity is met for each analysis year. That is, whether the build scenario is less than the established emissions budget. Tables 22-25 detail the manner in which the traffic model output is combined with off-model adjustments to produce emissions totals for each analysis year scenario for the NRPC portion of the non-attainment area.

Table 21 summarizes the results of the wintertime carbon monoxide analysis for City of Nashua. Tables 26-28 detail the manner in which the traffic model output is combined with off-model adjustments to produce emissions (carbon monoxide) totals for each analysis year scenario for the City of Nashua.

TABLE 20: NRPC Ozone Analysis Summary

		<u> </u>	<u> </u>	
YEAR	SCENARIO	VMT	VOC kg/day (Summer)	NOx kg/day (Summer)
2007	Build	4,712,470	3,225.682	5,880.026
2009	Build	4,843,843	2,751.826	4,853.805
2017	Build	5,469,754	1,584.164	2,099.920
2026	Build	6,292,076	1,324.228	1,329.448

TABLE 21: Carbon Monoxide Analysis Summary - City of Nashua

YEAR	SCENARIO	VMT	CO kg/day (Winter)	CO Budget (kg/day)
2010	Build	1,832,463	26,616.943	54,489
2017	Build	1,956,346	21,229.571	54,489
2026	Build	2,146,235	21,369.822	54,489

TABLE 22: 2007 Ozone Analysis - Build

TABLE 22. 2007 Ozone Anarysis - Burid						
	VMT	VOC (kg/day) (Summer)	NOx (kg/day) (Summer)			
Subtotal: Highway Model	4,713,898	3,226.440	5,875.320			
OFF-MODEL ADJUSTMENTS:						
Nashua-Boston Bus service	- 1,428	- 0.758	+ 4.706			



TOTAL - 2007:	4,712,470	3,225.682	5,880.026		
TARIF 23. 2009 Ozone Analysis - Build					

	VMT	VOC (kg/day) - Summer	NOx (kg/day) - Summer
Subtotal: Highway Model	4,848,425	2,753.558	4,843.642
OFF-MODEL ADJUSTMENTS:			
Commuter Rail	- 1,702	- 0.471	+ 5.488
Nashua-Boston Bus service	- 2,296	- 1.058	+ 3.603
Nashua Transit - Increased hours	- 584	- 0.202	+ 1.070
TOTAL - 2009:	4,843,843	2,751.826	4,853.805

TABLE 24: 2017 Ozone Analysis - Build

	VMT	VOC (kg/day) (Summer)	NOx (kg/day) (Summer)
Subtotal: Highway Model	5,472,267	1,586.162	2,094.634
OFF-MODEL ADJUSTMENTS:			
Commuter Rail	- 2,513	279	+ 5.046
Nashua Signal Coordination (04-30CM)	na	- 1.72	+ 0.240
TOTAL - 2017:	5,469,754	1,584.164	2,099.920

TABLE 25: 2026 Ozone Analysis - Build

	VMT	VOC (kg/day) (Summer)	NOx (kg/day) (Summer)
Subtotal: Highway Model	6,324,541	1,320.772	1,247.880
OFF-MODEL ADJUSTMENTS:			
Commuter Rail (3 stations)	- 32,465	+ 3.456	+ 81.568
TOTAL - 2026:	6,292,076	1,324.228	1,329.448

TABLE 26: 2010 Carbon Monoxide Analysis/City of Nashua - Build

	VMT	CO kg/day (Winter)
Subtotal: Highway Model	1,809,863	26,655.835
OFF-MODEL ADJUSTMENTS:		
Commuter Rail	- 1,787	- 28.169
Nashua-Boston Bus service	- 2,296	- 35.723
Nashua Signal coordination (04-30CM)	n/a	+ 25.00
Nashua Transit - Increased hours	- 584	- 8.28
TOTAL - 2010:	1,805,196	26,608.663

TABLE 27: 2017 Carbon Monoxide Analysis/City of Nashua - Build

	VMT	CO kg/day (Winter)
Subtotal: Highway Model	1,958,859	21,240.42
OFF-MODEL ADJUSTMENTS:		
Commuter Rail	- 2,513	- 31.349
Nashua Signal coordination (04-30CM)	n/a	+ 20.500
TOTAL - 2017:	1,956,346	21,229.571

TABLE 28: 2026 Carbon Monoxide Analysis/City of Nashua - Build

	VMT	CO kg/day (Winter)
Subtotal: Highway Model	2,153,700	21,494.65
OFF-MODEL ADJUSTMENTS:		
Commuter Rail	- 7,465	- 124.828

		STIP 8-Hour Rule
	_	
	[TOTAL – 2026: 2,146,235 21,369.822
0.4.	TABI	LE 29: Air Quality Analysis Exempt Codes/Projects Exempt from Conformity
<u>Safety</u>		
	E-1	Railroad/highway crossing.
	E-1 E-2	Hazard elimination program.
	E-2 E-3	Safer non-Federal-aid system roads.
	E-4	Shoulder improvements.
	E-5	Increasing sight distance.
	E-6	Safety improvement program.
	E-7	Traffic control devices and operating assistance other than signalization projects.
	E-8	Railroad/highway crossing warning devices.
	E-9	Guardrails, median barriers, crash cushions.
	E-10	Pavement resurfacing and/or rehabilitation.
	E-11	Pavement marking demonstration.
	E-12	Emergency relief (23 U.S.C. 125).
	E-13	Fencing.
	E-14	Skid treatments.
	E-15	Safety roadside rest areas.
	E-16	Adding medians.
	E-17	Truck climbing lanes outside the urbanized area.
	E-18	Lighting improvements.
	E-19	Widening narrow pavements or reconstructing bridges (no additional travel lanes).
	E-20	Emergency truck pullovers.
Mass T	<u>ransit</u>	
	E-21	Operating assistance to transit agencies.
	E-22	Purchase of support vehicles.
	E-23	Rehabilitation of transit vehicles.
	E-24	Purchase of office, shop and operating equipment for existing facilities.
	E-25	Purchase of operating equipment for vehicles (e.g. radios, fareboxes, lifts, etc.)
	E-26	Construction or renovation of power, signal and communications systems.
	E-27	Construction of small passenger shelters and information kiosks.
	E-28	Reconstruction or renovation of transit buildings and structures.
	E-29	Rehabilitation or reconstruction of track structures, track, and track bed in existing right-of-way.
	E-30	Purchase of new buses and new rail cars to replace existing vehicles or for minor expansions of the fleet.
	E-31	Construction of new bus or rail storage/maintenance facilities.
Air Qu	<u>ality</u>	
	E-32	Continuation of ride-sharing and van pooling promotion activities at current levels.
	E-33	Bicycle and pedestrian facilities.
Other		
	E-34	Planning and technical studies
	E-35	Grants for training and research programs.
	F-36	Planning activities conducted pursuant to titles 23 and 49 U.S.C.

Planning activities conducted pursuant to titles 23 and 49 U.S.C.

Engineering to assess social, economic and environmental effects of the proposed

Federal-aid systems revisions.

action or alternatives to that action.

E-36 E-37

E-38

DRAFT Air Quality Conformity Analysis for the NRPC Region 2007-2026 STIP (8-Hour Rule) August 18, 2006 STIP 8-Hour Rule

E-39 Noise attenuation.

TABLE 29: Air Quality Analysis Exempt Codes Projects Exempt from Conformity (con't)

E-40	Advance land acquisitions (23 CFR part 712 or 23 CFR part 771).
E-41	Acquisition of scenic easements.
E-42	Plantings, landscaping, etc.
E-43	Sign removal.
E-44	Directional and informational signs.
E-45	Transportation enhancement activities (except rehabilitation and operation of historic
	transportation buildings, structures or facilities).
E-46	Repair of damage caused by natural disasters, civil unrest, or terrorist acts, except

projects involving substantial functional, locational or capacity changes.

Projects Exempt from Regional Emissions Analysis

E-51	Intersection channelization projects.
E-52	Intersection signalization projects at individual intersections.
E-53	Intersection reconfiguration projects.
E-54	Changes in vertical and horizontal alignment.
E-55	Truck size and weight inspection stations.
E-56	Bus terminals and transfer points.

Other Exempt Codes

N/E Project is not exempt.

Indicates that an exempt project is expected to have a beneficial air quality impact and is included in the regional emissions analysis.



TABLE 30: Emission Factors for VOC, NOx, and CO

2007 Summer - Freeway - Light Duty Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	4.309	1.289	Freeway	2007
4	2.928	1.210	Freeway	2007
5	2.099	1.163	Freeway	2007
6	1.696	1.077	Freeway	2007
7	1.482	0.988	Freeway	2007
8	1.323	0.921	Freeway	2007
9	1.198	0.870	Freeway	2007
10	1.098	0.828	Freeway	2007
11	1.025	0.789	Freeway	2007
12	0.976	0.749	Freeway	2007
13	0.933	0.715	Freeway	2007
14	0.898	0.686	Freeway	2007
15	0.866	0.660	Freeway	2007
16	0.840	0.645	Freeway	2007
17	0.820	0.646	Freeway	2007
18	0.803	0.647	Freeway	2007
19	0.787	0.648	Freeway	2007
20	0.772	0.649	Freeway	2007
21	0.760	0.650	Freeway	2007
22	0.749	0.650	Freeway	2007
23	0.740	0.650	Freeway	2007
24	0.732	0.651	Freeway	2007
25	0.724	0.651	Freeway	2007
26	0.716	0.651	Freeway	2007
27	0.709	0.651	Freeway	2007
28	0.703	0.651	Freeway	2007
29	0.697	0.651	Freeway	2007
30	0.691	0.651	Freeway	2007
31	0.685	0.650	Freeway	2007
32	0.679	0.650	Freeway	2007
33	0.674	0.649	Freeway	2007
34	0.668	0.648	Freeway	2007
35	0.664	0.647	Freeway	2007
36	0.660	0.648	Freeway	2007
37	0.656	0.651	Freeway	2007
38	0.652	0.652	Freeway	2007
39	0.649	0.654	Freeway	2007
40	0.646	0.656	Freeway	2007
41	0.643	0.659	Freeway	2007
42	0.640	0.661	Freeway	2007
43	0.637	0.663	Freeway	2007
44	0.634	0.666	Freeway	2007
45	0.631	0.668	Freeway	2007



2007 Summer - Freeway - Light Duty Vehicle Composite					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
46	0.628	0.671	Freeway	2007	
47	0.625	0.673	Freeway	2007	
48	0.622	0.676	Freeway	2007	
49	0.620	0.679	Freeway	2007	
50	0.616	0.682	Freeway	2007	
51	0.614	0.684	Freeway	2007	
52	0.611	0.687	Freeway	2007	
53	0.609	0.689	Freeway	2007	
54	0.606	0.693	Freeway	2007	
55	0.604	0.695	Freeway	2007	
56	0.602	0.698	Freeway	2007	
57	0.600	0.701	Freeway	2007	
58	0.598	0.705	Freeway	2007	
59	0.597	0.707	Freeway	2007	
60	0.595	0.710	Freeway	2007	
60.7	0.593	0.712	Freeway	2007	

May 23, 2006

2007 Summer - Freeway - Bus					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
3	1.465	23.692	Freeway	2007	
4	1.385	22.617	Freeway	2007	
5	1.336	21.972	Freeway	2007	
6	1.264	21.028	Freeway	2007	
7	1.193	20.099	Freeway	2007	
8	1.139	19.402	Freeway	2007	
9	1.097	18.860	Freeway	2007	
10	1.064	18.426	Freeway	2007	
11	1.025	17.931	Freeway	2007	
12	0.975	17.325	Freeway	2007	
13	0.934	16.812	Freeway	2007	
14	0.898	16.372	Freeway	2007	
15	0.867	15.990	Freeway	2007	
16	0.836	15.626	Freeway	2007	
17	0.802	15.232	Freeway	2007	
18	0.770	14.881	Freeway	2007	
19	0.743	14.568	Freeway	2007	
20	0.718	14.286	Freeway	2007	
21	0.694	14.027	Freeway	2007	
22	0.668	13.784	Freeway	2007	
23	0.645	13.562	Freeway	2007	
24	0.624	13.359	Freeway	2007	
25	0.605	13.172	Freeway	2007	
26	0.586	13.015	Freeway	2007	



	2007 Summer - Freeway - Bus					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year		
27	0.567	12.889	Freeway	2007		
28	0.550	12.773	Freeway	2007		
29	0.534	12.664	Freeway	2007		
30	0.519	12.563	Freeway	2007		
31	0.505	12.513	Freeway	2007		
32	0.491	12.488	Freeway	2007		
33	0.479	12.465	Freeway	2007		
34	0.467	12.443	Freeway	2007		
35	0.455	12.425	Freeway	2007		
36	0.445	12.500	Freeway	2007		
37	0.435	12.571	Freeway	2007		
38	0.425	12.639	Freeway	2007		
39	0.416	12.703	Freeway	2007		
40	0.408	12.827	Freeway	2007		
41	0.401	13.010	Freeway	2007		
42	0.393	13.184	Freeway	2007		
43	0.387	13.350	Freeway	2007		
44	0.380	13.518	Freeway	2007		
45	0.375	13.841	Freeway	2007		
46	0.370	14.150	Freeway	2007		
47	0.365	14.445	Freeway	2007		
48	0.360	14.728	Freeway	2007		
49	0.356	15.169	Freeway	2007		
50	0.353	15.658	Freeway	2007		
51	0.349	16.127	Freeway	2007		
52	0.346	16.578	Freeway	2007		
53	0.344	17.169	Freeway	2007		
54	0.342	17.909	Freeway	2007		
55	0.341	18.621	Freeway	2007		
56	0.339	19.308	Freeway	2007		
57	0.338	20.126	Freeway	2007		
58	0.338	21.230	Freeway	2007		
59	0.338	22.296	Freeway	2007		
60	0.338	23.327	Freeway	2007		
60.7	0.338	24.028	Freeway	2007		

May 23, 2006



2007 Summer - Freeway - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	4.255	2.083	Freeway	2007
4	2.935	1.977	Freeway	2007
5	2.144	1.914	Freeway	2007
6	1.751	1.805	Freeway	2007
7	1.538	1.694	Freeway	2007
8	1.378	1.611	Freeway	2007
9	1.254	1.546	Freeway	2007
10	1.155	1.494	Freeway	2007
11	1.080	1.443	Freeway	2007
12	1.027	1.387	Freeway	2007
13	0.982	1.340	Freeway	2007
14	0.943	1.300	Freeway	2007
15	0.910	1.265	Freeway	2007
16	0.881	1.240	Freeway	2007
17	0.859	1.230	Freeway	2007
18	0.839	1.221	Freeway	2007
19	0.821	1.213	Freeway	2007
20	0.805	1.206	Freeway	2007
21	0.790	1.199	Freeway	2007
22	0.778	1.193	Freeway	2007
23	0.767	1.187	Freeway	2007
24	0.757	1.182	Freeway	2007
25	0.747	1.177	Freeway	2007
26	0.738	1.173	Freeway	2007
27	0.730	1.170	Freeway	2007
28	0.722	1.167	Freeway	2007
29	0.715	1.164	Freeway	2007
30	0.708	1.162	Freeway	2007
31	0.701	1.160	Freeway	2007
32	0.694	1.159	Freeway	2007
33	0.687	1.158	Freeway	2007
34	0.681	1.157	Freeway	2007
35	0.676	1.157	Freeway	2007
36	0.671	1.161	Freeway	2007
37	0.667	1.166	Freeway	2007
38	0.663	1.170	Freeway	2007
39	0.659	1.174	Freeway	2007
40	0.655	1.180	Freeway	2007
41	0.651	1.189	Freeway	2007
42	0.648	1.197	Freeway	2007
43	0.645	1.205	Freeway	2007
44	0.641	1.213	Freeway	2007
45	0.638	1.226	Freeway	2007
46	0.635	1.239	Freeway	2007



2007 Summer - Freeway - All Vehicle Composite					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
47	0.632	1.251	Freeway	2007	
48	0.628	1.262	Freeway	2007	
49	0.625	1.279	Freeway	2007	
50	0.622	1.297	Freeway	2007	
51	0.620	1.315	Freeway	2007	
52	0.617	1.332	Freeway	2007	
53	0.615	1.353	Freeway	2007	
54	0.613	1.379	Freeway	2007	
55	0.611	1.404	Freeway	2007	
56	0.609	1.428	Freeway	2007	
57	0.607	1.457	Freeway	2007	
58	0.606	1.494	Freeway	2007	
59	0.605	1.530	Freeway	2007	
60	0.603	1.565	Freeway	2007	
60.7	0.602	1.588	Freeway	2007	

May 23, 2006

	2007 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
2.5	5.197	2.156	Arterial	2007	
3	4.142	2.071	Arterial	2007	
4	2.822	1.965	Arterial	2007	
5	2.031	1.902	Arterial	2007	
6	1.744	1.789	Arterial	2007	
7	1.539	1.709	Arterial	2007	
8	1.385	1.649	Arterial	2007	
9	1.266	1.602	Arterial	2007	
10	1.170	1.565	Arterial	2007	
11	1.108	1.506	Arterial	2007	
12	1.057	1.458	Arterial	2007	
13	1.013	1.416	Arterial	2007	
14	0.976	1.381	Arterial	2007	
15	0.943	1.351	Arterial	2007	
16	0.912	1.320	Arterial	2007	
17	0.885	1.294	Arterial	2007	
18	0.860	1.270	Arterial	2007	
19	0.839	1.249	Arterial	2007	
20	0.819	1.230	Arterial	2007	
21	0.802	1.212	Arterial	2007	
22	0.787	1.197	Arterial	2007	
23	0.773	1.182	Arterial	2007	
24	0.761	1.169	Arterial	2007	
25	0.749	1.156	Arterial	2007	
26	0.739	1.146	Arterial	2007	



	2007 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
27	0.729	1.137	Arterial	2007	
28	0.720	1.128	Arterial	2007	
29	0.712	1.120	Arterial	2007	
30	0.705	1.113	Arterial	2007	
31	0.697	1.109	Arterial	2007	
32	0.690	1.106	Arterial	2007	
33	0.683	1.103	Arterial	2007	
34	0.677	1.100	Arterial	2007	
35	0.671	1.097	Arterial	2007	
36	0.666	1.102	Arterial	2007	
37	0.662	1.107	Arterial	2007	
38	0.658	1.111	Arterial	2007	
39	0.654	1.115	Arterial	2007	
40	0.650	1.119	Arterial	2007	
41	0.646	1.127	Arterial	2007	
42	0.643	1.135	Arterial	2007	
43	0.640	1.143	Arterial	2007	
44	0.636	1.151	Arterial	2007	
45	0.633	1.158	Arterial	2007	
46	0.630	1.170	Arterial	2007	
47	0.627	1.182	Arterial	2007	
48	0.624	1.194	Arterial	2007	
49	0.621	1.205	Arterial	2007	
50	0.618	1.216	Arterial	2007	
51	0.615	1.233	Arterial	2007	
52	0.613	1.250	Arterial	2007	
53	0.610	1.266	Arterial	2007	
54	0.608	1.282	Arterial	2007	
55	0.605	1.297	Arterial	2007	
56	0.603	1.321	Arterial	2007	
57	0.602	1.345	Arterial	2007	
58	0.600	1.367	Arterial	2007	
59	0.598	1.389	Arterial	2007	
60	0.597	1.410	Arterial	2007	
61	0.596	1.444	Arterial	2007	
62	0.594	1.476	Arterial	2007	
63	0.593	1.508	Arterial	2007	
64	0.592	1.538	Arterial	2007	
65	0.591	1.568	Arterial	2007	



2009 Summer - Freeway - Light Duty Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	3.398	1.033	Freeway	2009
4	2.317	0.970	Freeway	2009
5	1.669	0.933	Freeway	2009
6	1.353	0.863	Freeway	2009
7	1.184	0.792	Freeway	2009
8	1.058	0.738	Freeway	2009
9	0.961	0.696	Freeway	2009
10	0.882	0.662	Freeway	2009
11	0.825	0.631	Freeway	2009
12	0.785	0.598	Freeway	2009
13	0.752	0.571	Freeway	2009
14	0.723	0.548	Freeway	2009
15	0.698	0.527	Freeway	2009
16	0.677	0.515	Freeway	2009
17	0.662	0.516	Freeway	2009
18	0.648	0.517	Freeway	2009
19	0.636	0.518	Freeway	2009
20	0.625	0.519	Freeway	2009
21	0.615	0.520	Freeway	2009
22	0.607	0.520	Freeway	2009
23	0.600	0.520	Freeway	2009
24	0.593	0.520	Freeway	2009
25	0.586	0.520	Freeway	2009
26	0.581	0.521	Freeway	2009
27	0.576	0.521	Freeway	2009
28	0.570	0.521	Freeway	2009
29	0.566	0.521	Freeway	2009
30	0.561	0.521	Freeway	2009
31	0.557	0.520	Freeway	2009
32	0.553	0.520	Freeway	2009
33	0.548	0.519	Freeway	2009
34	0.544	0.518	Freeway	2009
35	0.540	0.518	Freeway	2009
36	0.537	0.520	Freeway	2009
37	0.534	0.521	Freeway	2009
38	0.532	0.522	Freeway	2009
39	0.530	0.524	Freeway	2009
40	0.527	0.525	Freeway	2009
41	0.525	0.527	Freeway	2009
42	0.522	0.529	Freeway	2009
43	0.520	0.532	Freeway	2009
44	0.518	0.533	Freeway	2009
45	0.516	0.535	Freeway	2009
46	0.514	0.538	Freeway	2009



2009 Summer - Freeway - Light Duty Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
47	0.512	0.540	Free way	2009
48	0.509	0.542	Freeway	2009
49	0.508	0.545	Freeway	2009
50	0.505	0.547	Freeway	2009
51	0.503	0.549	Freeway	2009
52	0.502	0.551	Freeway	2009
53	0.500	0.553	Freeway	2009
54	0.498	0.556	Freeway	2009
55	0.497	0.559	Freeway	2009
56	0.495	0.561	Freeway	2009
57	0.494	0.563	Freeway	2009
58	0.492	0.566	Freeway	2009
59	0.491	0.568	Freeway	2009
60	0.490	0.571	Freeway	2009
60.7	0.489	0.573	Freeway	2009

23-May-06

	2009 Summer - Freeway - Bus				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
3	1.172	20.324	Freeway	2009	
4	1.108	19.401	Freeway	2009	
5	1.069	18.847	Freeway	2009	
6	1.011	18.037	Freeway	2009	
7	0.954	17.239	Freeway	2009	
8	0.911	16.640	Freeway	2009	
9	0.878	16.175	Freeway	2009	
10	0.851	15.802	Freeway	2009	
11	0.820	15.378	Freeway	2009	
12	0.780	14.857	Freeway	2009	
13	0.747	14.416	Freeway	2009	
14	0.718	14.038	Freeway	2009	
15	0.693	13.711	Freeway	2009	
16	0.669	13.398	Freeway	2009	
17	0.641	13.059	Freeway	2009	
18	0.616	12.759	Freeway	2009	
19	0.594	12.490	Freeway	2009	
20	0.574	12.247	Freeway	2009	
21	0.555	12.025	Freeway	2009	
22	0.535	11.816	Freeway	2009	
23	0.516	11.626	Freeway	2009	
24	0.499	11.451	Freeway	2009	
25	0.484	11.291	Freeway	2009	
26	0.469	11.156	Freeway	2009	
27	0.454	11.048	Freeway	2009	



	2009 Summer - Freeway - Bus				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
28	0.440	10.948	Freeway	2009	
29	0.427	10.855	Freeway	2009	
30	0.415	10.767	Freeway	2009	
31	0.404	10.725	Freeway	2009	
32	0.393	10.704	Freeway	2009	
33	0.383	10.684	Freeway	2009	
34	0.373	10.665	Freeway	2009	
35	0.364	10.649	Freeway	2009	
36	0.356	10.714	Freeway	2009	
37	0.348	10.775	Freeway	2009	
38	0.340	10.833	Freeway	2009	
39	0.333	10.888	Freeway	2009	
40	0.326	10.995	Freeway	2009	
41	0.320	11.152	Freeway	2009	
42	0.315	11.301	Freeway	2009	
43	0.309	11.444	Freeway	2009	
44	0.304	11.588	Freeway	2009	
45	0.300	11.865	Freeway	2009	
46	0.296	12.130	Freeway	2009	
47	0.292	12.384	Freeway	2009	
48	0.288	12.627	Freeway	2009	
49	0.285	13.006	Freeway	2009	
50	0.282	13.425	Freeway	2009	
51	0.279	13.828	Freeway	2009	
52	0.277	14.215	Freeway	2009	
53	0.275	14.723	Freeway	2009	
54	0.274	15.358	Freeway	2009	
55	0.272	15.970	Freeway	2009	
56	0.271	16.560	Freeway	2009	
57	0.270	17.262	Freeway	2009	
58	0.270	18.210	Freeway	2009	
59	0.270	19.126	Freeway	2009	
60	0.270	20.011	Freeway	2009	
60.7	0.270	20.613	Freeway	2009	



	2009 Summer - Freeway - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
3	3.395	1.669	Freeway	2009	
4	2.350	1.584	Freeway	2009	
5	1.723	1.533	Freeway	2009	
6	1.412	1.445	Freeway	2009	
7	1.242	1.355	Freeway	2009	
8	1.115	1.288	Freeway	2009	
9	1.016	1.236	Freeway	2009	
10	0.936	1.194	Freeway	2009	
11	0.877	1.153	Freeway	2009	
12	0.834	1.108	Freeway	2009	
13	0.798	1.070	Freeway	2009	
14	0.767	1.037	Freeway	2009	
15	0.740	1.009	Freeway	2009	
16	0.718	0.989	Freeway	2009	
17	0.700	0.980	Freeway	2009	
18	0.684	0.973	Freeway	2009	
19	0.670	0.967	Freeway	2009	
20	0.657	0.961	Freeway	2009	
21	0.646	0.956	Freeway	2009	
22	0.636	0.951	Freeway	2009	
23	0.627	0.946	Freeway	2009	
24	0.619	0.942	Freeway	2009	
25	0.612	0.938	Freeway	2009	
26	0.605	0.935	Freeway	2009	
27	0.598	0.932	Freeway	2009	
28	0.592	0.930	Freeway	2009	
29	0.586	0.928	Freeway	2009	
30	0.581	0.926	Freeway	2009	
31	0.575	0.925	Freeway	2009	
32	0.570	0.924	Freeway	2009	
33	0.565	0.923	Freeway	2009	
34	0.560	0.923	Freeway	2009	
35	0.556	0.922	Freeway	2009	
36	0.552	0.926	Freeway	2009	
37	0.549	0.930	Freeway	2009	
38	0.545	0.933	Freeway	2009	
39	0.542	0.937	Freeway	2009	
40	0.540	0.942	Freeway	2009	
41	0.537	0.949	Freeway	2009	
42	0.534	0.956	Freeway	2009	
43	0.531	0.962	Freeway	2009	
44	0.529	0.968	Freeway	2009	
45	0.526	0.979	Freeway	2009	
46	0.524	0.989	Freeway	2009	



	2009 Summer - Freeway - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
47	0.521	0.999	Freeway	2009	
48	0.519	1.009	Freeway	2009	
49	0.517	1.022	Freeway	2009	
50	0.515	1.037	Freeway	2009	
51	0.513	1.052	Freeway	2009	
52	0.511	1.065	Freeway	2009	
53	0.509	1.083	Freeway	2009	
54	0.508	1.104	Freeway	2009	
55	0.506	1.125	Freeway	2009	
56	0.505	1.144	Freeway	2009	
57	0.504	1.167	Freeway	2009	
58	0.503	1.198	Freeway	2009	
59	0.502	1.227	Freeway	2009	
60	0.502	1.255	Freeway	2009	
60.7	0.501	1.275	Freeway	2009	

23-May-06

	2009 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
2.5	4.142	1.735	Arterial	2009	
3	3.306	1.667	Arterial	2009	
4	2.261	1.582	Arterial	2009	
5	1.634	1.531	Arterial	2009	
6	1.407	1.440	Arterial	2009	
7	1.244	1.375	Arterial	2009	
8	1.122	1.327	Arterial	2009	
9	1.027	1.289	Arterial	2009	
10	0.951	1.259	Arterial	2009	
11	0.902	1.211	Arterial	2009	
12	0.860	1.172	Arterial	2009	
13	0.826	1.139	Arterial	2009	
14	0.796	1.110	Arterial	2009	
15	0.770	1.086	Arterial	2009	
16	0.745	1.061	Arterial	2009	
17	0.723	1.040	Arterial	2009	
18	0.703	1.021	Arterial	2009	
19	0.686	1.004	Arterial	2009	
20	0.670	0.988	Arterial	2009	
21	0.657	0.974	Arterial	2009	
22	0.645	0.961	Arterial	2009	
23	0.634	0.950	Arterial	2009	
24	0.624	0.939	Arterial	2009	
25	0.614	0.929	Arterial	2009	



	2009 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
26	0.606	0.921	Arterial	2009	
27	0.598	0.913	Arterial	2009	
28	0.591	0.906	Arterial	2009	
29	0.585	0.900	Arterial	2009	
30	0.579	0.894	Arterial	2009	
31	0.573	0.891	Arterial	2009	
32	0.567	0.888	Arterial	2009	
33	0.562	0.886	Arterial	2009	
34	0.557	0.884	Arterial	2009	
35	0.552	0.882	Arterial	2009	
36	0.548	0.885	Arterial	2009	
37	0.545	0.889	Arterial	2009	
38	0.542	0.893	Arterial	2009	
39	0.539	0.896	Arterial	2009	
40	0.536	0.899	Arterial	2009	
41	0.533	0.906	Arterial	2009	
42	0.530	0.913	Arterial	2009	
43	0.528	0.919	Arterial	2009	
44	0.525	0.925	Arterial	2009	
45	0.523	0.931	Arterial	2009	
46	0.521	0.941	Arterial	2009	
47	0.518	0.951	Arterial	2009	
48	0.516	0.961	Arterial	2009	
49	0.514	0.970	Arterial	2009	
50	0.511	0.978	Arterial	2009	
51	0.509	0.993	Arterial	2009	
52	0.507	1.006	Arterial	2009	
53	0.505	1.020	Arterial	2009	
54	0.503	1.033	Arterial	2009	
55	0.502	1.045	Arterial	2009	
56	0.500	1.065	Arterial	2009	
57	0.499	1.084	Arterial	2009	
58	0.498	1.102	Arterial	2009	
59	0.497	1.120	Arterial	2009	
60	0.496	1.137	Arterial	2009	
61	0.495	1.164	Arterial	2009	
62	0.495	1.191	Arterial	2009	
63	0.494	1.217	Arterial	2009	
64	0.493	1.242	Arterial	2009	
65	0.492	1.266	Arterial	2009	



2010 Wir	nter CO - Freew	ay Light Duty Co	omposite
Veh Speed	CO	Road Type	Year
3	27.184	Freeway	2010
4	23.238	Freeway	2010
5	20.874	Freeway	2010
6	19.267	Freeway	2010
7	18.095	Freeway	2010
8	17.220	Freeway	2010
9	16.544	Freeway	2010
10	15.998	Freeway	2010
11	15.578	Freeway	2010
12	15.273	Freeway	2010
13	15.013	Freeway	2010
14	14.793	Freeway	2010
15	14.598	Freeway	2010
16	14.468	Freeway	2010
17	14.418	Freeway	2010
18	14.378	Freeway	2010
19	14.343	Freeway	2010
20	14.308	Freeway	2010
21	14.273	Freeway	2010
22	14.253	Freeway	2010
23	14.223	Freeway	2010
24	14.203	Freeway	2010
25	14.183	Freeway	2010
26	14.163	Freeway	2010
27	14.143	Freeway	2010
28	14.127	Freeway	2010
29	14.107	Freeway	2010
30	14.097	Freeway	2010
31	14.107	Freeway	2010
32	14.117	Freeway	2010
33	14.137	Freeway	2010
34	14.152	Freeway	2010
35	14.172	Freeway	2010
36	14.257	Freeway	2010
37	14.342	Freeway	2010
38	14.417	Freeway	2010
39	14.497	Freeway	2010
40	14.577	Freeway	2010
41	14.662	Freeway	2010
42	14.747	Freeway	2010
43	14.827	Freeway	2010
44	14.902	Freeway	2010
45	14.992	Freeway	2010



2010 Winter CO - Freeway Light Duty Composite					
Veh Speed	СО	Road Type	Year		
46	15.082	Freeway	2010		
47	15.162	Freeway	2010		
48	15.241	Freeway	2010		
49	15.331	Freeway	2010		
50	15.421	Freeway	2010		
51	15.506	Freeway	2010		
52	15.586	Freeway	2010		
53	15.671	Freeway	2010		
54	15.761	Freeway	2010		
55	15.851	Freeway	2010		
56	15.936	Freeway	2010		
57	16.026	Freeway	2010		
58	16.121	Freeway	2010		
59	16.211	Freeway	2010		
60	16.295	Freeway	2010		
60.7	16.355	Freeway	2010		

23-May-06

2010 Winter CO - Freeway Bus				
Veh Speed	СО	Road Type	Year	
3	12.116	Freeway	2010	
4	11.086	Freeway	2010	
5	10.468	Freeway	2010	
6	9.628	Freeway	2010	
7	8.816	Freeway	2010	
8	8.207	Freeway	2010	
9	7.733	Freeway	2010	
10	7.354	Freeway	2010	
11	6.944	Freeway	2010	
12	6.465	Freeway	2010	
13	6.059	Freeway	2010	
14	5.712	Freeway	2010	
15	5.410	Freeway	2010	
16	5.127	Freeway	2010	
17	4.832	Freeway	2010	
18	4.569	Freeway	2010	
19	4.335	Freeway	2010	
20	4.123	Freeway	2010	
21	3.928	Freeway	2010	
22	3.740	Freeway	2010	
23	3.569	Freeway	2010	
24	3.413	Freeway	2010	
25	3.268	Freeway	2010	



	2010 Winter CO - Freeway Bus				
Veh Speed	CO	Road Type	Year		
26	3.136	Freeway	2010		
27	3.016	Freeway	2010		
28	2.904	Freeway	2010		
29	2.800	Freeway	2010		
30	2.702	Freeway	2010		
31	2.618	Freeway	2010		
32	2.541	Freeway	2010		
33	2.469	Freeway	2010		
34	2.401	Freeway	2010		
35	2.337	Freeway	2010		
36	2.288	Freeway	2010		
37	2.242	Freeway	2010		
38	2.198	Freeway	2010		
39	2.157	Freeway	2010		
40	2.124	Freeway	2010		
41	2.100	Freeway	2010		
42	2.077	Freeway	2010		
43	2.055	Freeway	2010		
44	2.035	Freeway	2010		
45	2.032	Freeway	2010		
46	2.029	Freeway	2010		
47	2.025	Freeway	2010		
48	2.022	Freeway	2010		
49	2.034	Freeway	2010		
50	2.051	Freeway	2010		
51	2.068	Freeway	2010		
52	2.084	Freeway	2010		
53	2.112	Freeway	2010		
54	2.154	Freeway	2010		
55	2.194	Freeway	2010		
56	2.232	Freeway	2010		
57	2.282	Freeway	2010		
58	2.354	Freeway	2010		
59	2.425	Freeway	2010		
60	2.493	Freeway	2010		
60.7	2.539	Freeway	2010		



2010 Winter CO - Freeway All Vehicle Composite				
Veh Speed	CO	Road Type	Year	
3	27.043	Freeway	2010	
4	23.157	Freeway	2010	
5	20.825	Freeway	2010	
6	19.179	Freeway	2010	
7	17.959	Freeway	2010	
8	17.044	Freeway	2010	
9	16.333	Freeway	2010	
10	15.763	Freeway	2010	
11	15.314	Freeway	2010	
12	14.963	Freeway	2010	
13	14.666	Freeway	2010	
14	14.411	Freeway	2010	
15	14.191	Freeway	2010	
16	14.025	Freeway	2010	
17	13.943	Freeway	2010	
18	13.871	Freeway	2010	
19	13.805	Freeway	2010	
20	13.747	Freeway	2010	
21	13.694	Freeway	2010	
22	13.644	Freeway	2010	
23	13.600	Freeway	2010	
24	13.558	Freeway	2010	
25	13.521	Freeway	2010	
26	13.486	Freeway	2010	
27	13.454	Freeway	2010	
28	13.425	Freeway	2010	
29	13.397	Freeway	2010	
30	13.372	Freeway	2010	
31	13.369	Freeway	2010	
32	13.376	Freeway	2010	
33	13.383	Freeway	2010	
34	13.389	Freeway	2010	
35	13.397	Freeway	2010	
36	13.474	Freeway	2010	
37	13.546	Freeway	2010	
38	13.615	Freeway	2010	
39	13.680	Freeway	2010	
40	13.752	Freeway	2010	
41	13.831	Freeway	2010	
42	13.906	Freeway	2010	
43	13.978	Freeway	2010	
44	14.047	Freeway	2010	
45	14.132	Freeway	2010	



2010 Winter CO - Freeway All Vehicle Composite				
Veh Speed	CO	Road Type	Year	
46	14.213	Freeway	2010	
47	14.290	Freeway	2010	
48	14.365	Freeway	2010	
49	14.450	Freeway	2010	
50	14.537	Freeway	2010	
51	14.620	Freeway	2010	
52	14.700	Freeway	2010	
53	14.790	Freeway	2010	
54	14.889	Freeway	2010	
55	14.985	Freeway	2010	
56	15.077	Freeway	2010	
57	15.173	Freeway	2010	
58	15.280	Freeway	2010	
59	15.383	Freeway	2010	
60	15.482	Freeway	2010	
60.7	15.550	Freeway	2010	

23-May-06

2010 Win	2010 Winter CO - Arterial - All Vehicle Composite					
Veh Speed	СО	Road Type	Year			
2.5	29.784	Arterial	2010			
3	26.675	Arterial	2010			
4	22.788	Arterial	2010			
5	20.456	Arterial	2010			
6	18.926	Arterial	2010			
7	17.833	Arterial	2010			
8	17.013	Arterial	2010			
9	16.376	Arterial	2010			
10	15.866	Arterial	2010			
11	15.467	Arterial	2010			
12	15.136	Arterial	2010			
13	14.855	Arterial	2010			
14	14.614	Arterial	2010			
15	14.406	Arterial	2010			
16	14.217	Arterial	2010			
17	14.050	Arterial	2010			
18	13.901	Arterial	2010			
19	13.769	Arterial	2010			
20	13.649	Arterial	2010			
21	13.548	Arterial	2010			
22	13.457	Arterial	2010			
23	13.373	Arterial	2010			
24	13.297	Arterial	2010			



2010 Winter CO - Arterial - All Vehicle Composite				
Veh Speed	CO	Road Type	Year	
25	13.226	Arterial	2010	
26	13.185	Arterial	2010	
27	13.147	Arterial	2010	
28	13.111	Arterial	2010	
29	13.078	Arterial	2010	
30	13.047	Arterial	2010	
31	13.053	Arterial	2010	
32	13.059	Arterial	2010	
33	13.064	Arterial	2010	
34	13.069	Arterial	2010	
35	13.074	Arterial	2010	
36	13.150	Arterial	2010	
37	13.223	Arterial	2010	
38	13.291	Arterial	2010	
39	13.357	Arterial	2010	
40	13.418	Arterial	2010	
41	13.497	Arterial	2010	
42	13.572	Arterial	2010	
43	13.644	Arterial	2010	
44	13.712	Arterial	2010	
45	13.778	Arterial	2010	
46	13.859	Arterial	2010	
47	13.936	Arterial	2010	
48	14.011	Arterial	2010	
49	14.082	Arterial	2010	
50	14.150	Arterial	2010	
51	14.234	Arterial	2010	
52	14.314	Arterial	2010	
53	14.391	Arterial	2010	
54	14.466	Arterial	2010	
55	14.537	Arterial	2010	
56	14.630	Arterial	2010	
57	14.719	Arterial	2010	
58	14.804	Arterial	2010	
59	14.887	Arterial	2010	
60	14.968	Arterial	2010	
61	15.064	Arterial	2010	
62	15.157	Arterial	2010	
63	15.248	Arterial	2010	
64	15.335	Arterial	2010	
65	15.420	Arterial	2010	



2017	' Summer - Free	way - Light Duty	y Vehicle Comp	osite
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	1.556	0.417	Freeway	2017
4	1.070	0.391	Freeway	2017
5	0.778	0.377	Freeway	2017
6	0.635	0.348	Freeway	2017
7	0.556	0.318	Freeway	2017
8	0.499	0.295	Freeway	2017
9	0.453	0.278	Freeway	2017
10	0.417	0.264	Freeway	2017
11	0.390	0.251	Freeway	2017
12	0.371	0.238	Freeway	2017
13	0.355	0.226	Freeway	2017
14	0.341	0.216	Freeway	2017
15	0.329	0.208	Freeway	2017
16	0.319	0.203	Freeway	2017
17	0.311	0.203	Freeway	2017
18	0.304	0.204	Freeway	2017
19	0.298	0.204	Freeway	2017
20	0.292	0.205	Freeway	2017
21	0.288	0.205	Freeway	2017
22	0.284	0.205	Freeway	2017
23	0.281	0.206	Freeway	2017
24	0.278	0.206	Freeway	2017
25	0.275	0.206	Freeway	2017
26	0.273	0.206	Freeway	2017
27	0.270	0.206	Freeway	2017
28	0.267	0.206	Freeway	2017
29	0.265	0.207	Freeway	2017
30	0.263	0.207	Freeway	2017
31	0.262	0.207	Freeway	2017
32	0.260	0.206	Freeway	2017
33	0.258	0.206	Freeway	2017
34	0.256	0.205	Freeway	2017
35	0.255	0.205	Freeway	2017
36	0.253	0.206	Freeway	2017
37	0.252	0.207	Freeway	2017
38	0.251	0.208	Freeway	2017
39	0.250	0.208	Freeway	2017
40	0.249	0.209	Freeway	2017
41	0.248	0.210	Freeway	2017
42	0.247	0.211	Freeway	2017
43	0.246	0.212	Freeway	2017
44	0.245	0.213	Freeway	2017
45	0.245	0.214	Freeway	2017



2017 Summer - Freeway - Light Duty Vehicle Composite					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
46	0.244	0.215	Freeway	2017	
47	0.244	0.216	Freeway	2017	
48	0.243	0.217	Freeway	2017	
49	0.242	0.218	Freeway	2017	
50	0.241	0.219	Freeway	2017	
51	0.241	0.220	Freeway	2017	
52	0.240	0.221	Freeway	2017	
53	0.240	0.222	Freeway	2017	
54	0.239	0.223	Freeway	2017	
55	0.239	0.225	Freeway	2017	
56	0.239	0.226	Freeway	2017	
57	0.239	0.226	Freeway	2017	
58	0.238	0.227	Freeway	2017	
59	0.238	0.229	Freeway	2017	
60	0.238	0.230	Freeway	2017	
60.7	0.238	0.231	Freeway	2017	

23-May-06

	2017 Summer - Freeway - Bus					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year		
3	0.720	7.978	Freeway	2017		
4	0.681	7.614	Freeway	2017		
5	0.657	7.395	Freeway	2017		
6	0.621	7.076	Freeway	2017		
7	0.586	6.761	Freeway	2017		
8	0.560	6.525	Freeway	2017		
9	0.539	6.341	Freeway	2017		
10	0.523	6.194	Freeway	2017		
11	0.504	6.026	Freeway	2017		
12	0.479	5.821	Freeway	2017		
13	0.459	5.647	Freeway	2017		
14	0.441	5.498	Freeway	2017		
15	0.426	5.369	Freeway	2017		
16	0.411	5.246	Freeway	2017		
17	0.394	5.112	Freeway	2017		
18	0.379	4.993	Freeway	2017		
19	0.365	4.887	Freeway	2017		
20	0.353	4.792	Freeway	2017		
21	0.341	4.704	Freeway	2017		
22	0.329	4.622	Freeway	2017		
23	0.317	4.547	Freeway	2017		
24	0.307	4.478	Freeway	2017		
25	0.297	4.414	Freeway	2017		



	2017 Summer - Freeway - Bus					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year		
26	0.288	4.361	Freeway	2017		
27	0.279	4.319	Freeway	2017		
28	0.271	4.279	Freeway	2017		
29	0.263	4.242	Freeway	2017		
30	0.255	4.208	Freeway	2017		
31	0.248	4.191	Freeway	2017		
32	0.242	4.183	Freeway	2017		
33	0.235	4.175	Freeway	2017		
34	0.229	4.167	Freeway	2017		
35	0.224	4.161	Freeway	2017		
36	0.219	4.187	Freeway	2017		
37	0.214	4.211	Freeway	2017		
38	0.209	4.234	Freeway	2017		
39	0.205	4.255	Freeway	2017		
40	0.201	4.298	Freeway	2017		
41	0.197	4.360	Freeway	2017		
42	0.193	4.419	Freeway	2017		
43	0.190	4.475	Freeway	2017		
44	0.187	4.532	Freeway	2017		
45	0.184	4.641	Freeway	2017		
46	0.182	4.746	Freeway	2017		
47	0.179	4.846	Freeway	2017		
48	0.177	4.942	Freeway	2017		
49	0.175	5.091	Freeway	2017		
50	0.173	5.256	Freeway	2017		
51	0.172	5.415	Freeway	2017		
52	0.170	5.568	Freeway	2017		
53	0.169	5.768	Freeway	2017		
54	0.168	6.019	Freeway	2017		
55	0.167	6.260	Freeway	2017		
56	0.167	6.493	Freeway	2017		
57	0.166	6.770	Freeway	2017		
58	0.166	7.144	Freeway	2017		
59	0.166	7.505	Freeway	2017		
60	0.166	7.854	Freeway	2017		
60.7	0.166	8.092	Freeway	2017		



	2017 Summer - I	Freeway - All Ve	hicle Composit	e
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	1.615	0.643	Freeway	2017
4	1.136	0.610	Freeway	2017
5	0.848	0.590	Freeway	2017
6	0.702	0.555	Freeway	2017
7	0.621	0.518	Freeway	2017
8	0.559	0.491	Freeway	2017
9	0.512	0.470	Freeway	2017
10	0.473	0.453	Freeway	2017
11	0.444	0.436	Freeway	2017
12	0.422	0.418	Freeway	2017
13	0.404	0.403	Freeway	2017
14	0.388	0.390	Freeway	2017
15	0.374	0.379	Freeway	2017
16	0.362	0.371	Freeway	2017
17	0.353	0.369	Freeway	2017
18	0.344	0.367	Freeway	2017
19	0.337	0.365	Freeway	2017
20	0.330	0.363	Freeway	2017
21	0.324	0.362	Freeway	2017
22	0.319	0.361	Freeway	2017
23	0.315	0.359	Freeway	2017
24	0.311	0.358	Freeway	2017
25	0.307	0.357	Freeway	2017
26	0.303	0.356	Freeway	2017
27	0.300	0.355	Freeway	2017
28	0.297	0.355	Freeway	2017
29	0.294	0.354	Freeway	2017
30	0.291	0.354	Freeway	2017
31	0.288	0.353	Freeway	2017
32	0.286	0.353	Freeway	2017
33	0.283	0.353	Freeway	2017
34	0.281	0.353	Freeway	2017
35	0.279	0.353	Freeway	2017
36	0.277	0.354	Freeway	2017
37	0.276	0.356	Freeway	2017
38	0.274	0.357	Freeway	2017
39	0.273	0.358	Freeway	2017
40	0.271	0.360	Freeway	2017
41	0.270	0.363	Freeway	2017
42	0.269	0.366	Freeway	2017
43	0.268	0.368	Freeway	2017
44	0.267	0.370	Freeway	2017
45	0.265	0.374	Freeway	2017



2017 Summer - Freeway - All Vehicle Composite					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
46	0.264	0.378	Freeway	2017	
47	0.263	0.382	Freeway	2017	
48	0.263	0.385	Freeway	2017	
49	0.262	0.390	Freeway	2017	
50	0.261	0.395	Freeway	2017	
51	0.260	0.400	Freeway	2017	
52	0.260	0.405	Freeway	2017	
53	0.259	0.411	Freeway	2017	
54	0.259	0.418	Freeway	2017	
55	0.259	0.426	Freeway	2017	
56	0.259	0.432	Freeway	2017	
57	0.259	0.440	Freeway	2017	
58	0.259	0.451	Freeway	2017	
59	0.259	0.460	Freeway	2017	
60	0.260	0.470	Freeway	2017	
60.7	0.260	0.477	Freeway	2017	

23-May-06

2017 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
2.5	1.961	0.671	Arterial	2017
3	1.577	0.645	Arterial	2017
4	1.099	0.612	Arterial	2017
5	0.811	0.592	Arterial	2017
6	0.702	0.557	Arterial	2017
7	0.625	0.531	Arterial	2017
8	0.566	0.512	Arterial	2017
9	0.521	0.497	Arterial	2017
10	0.485	0.485	Arterial	2017
11	0.460	0.467	Arterial	2017
12	0.439	0.452	Arterial	2017
13	0.421	0.439	Arterial	2017
14	0.406	0.428	Arterial	2017
15	0.392	0.418	Arterial	2017
16	0.379	0.409	Arterial	2017
17	0.367	0.401	Arterial	2017
18	0.357	0.393	Arterial	2017
19	0.347	0.387	Arterial	2017
20	0.339	0.381	Arterial	2017
21	0.332	0.376	Arterial	2017
22	0.326	0.371	Arterial	2017
23	0.320	0.366	Arterial	2017
24	0.315	0.362	Arterial	2017



	2017 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
25	0.310	0.358	Arterial	2017	
26	0.306	0.355	Arterial	2017	
27	0.302	0.352	Arterial	2017	
28	0.298	0.350	Arterial	2017	
29	0.295	0.347	Arterial	2017	
30	0.291	0.345	Arterial	2017	
31	0.288	0.344	Arterial	2017	
32	0.285	0.343	Arterial	2017	
33	0.283	0.342	Arterial	2017	
34	0.280	0.341	Arterial	2017	
35	0.278	0.340	Arterial	2017	
36	0.276	0.341	Arterial	2017	
37	0.275	0.343	Arterial	2017	
38	0.273	0.344	Arterial	2017	
39	0.272	0.346	Arterial	2017	
40	0.270	0.347	Arterial	2017	
41	0.269	0.350	Arterial	2017	
42	0.268	0.352	Arterial	2017	
43	0.267	0.355	Arterial	2017	
44	0.265	0.357	Arterial	2017	
45	0.264	0.359	Arterial	2017	
46	0.263	0.363	Arterial	2017	
47	0.262	0.366	Arterial	2017	
48	0.261	0.370	Arterial	2017	
49	0.260	0.373	Arterial	2017	
50	0.260	0.376	Arterial	2017	
51	0.259	0.381	Arterial	2017	
52	0.258	0.386	Arterial	2017	
53	0.258	0.391	Arterial	2017	
54	0.257	0.395	Arterial	2017	
55	0.256	0.400	Arterial	2017	
56	0.256	0.406	Arterial	2017	
57	0.256	0.413	Arterial	2017	
58	0.256	0.419	Arterial	2017	
59	0.256	0.426	Arterial	2017	
60	0.256	0.431	Arterial	2017	
61	0.256	0.441	Arterial	2017	
62	0.256	0.450	Arterial	2017	
63	0.256	0.458	Arterial	2017	
64	0.257	0.467	Arterial	2017	
65	0.257	0.475	Arterial	2017	



2017 Winter	CO - Freeway Li	ght Duty Vehicl	e Composite
Veh Speed	CO gr/mi	Road Type	Year
3	19.748	Freeway	2017
4	17.199	Freeway	2017
5	15.672	Freeway	2017
6	14.605	Freeway	2017
7	13.817	Freeway	2017
8	13.230	Freeway	2017
9	12.771	Freeway	2017
10	12.406	Freeway	2017
11	12.122	Freeway	2017
12	11.907	Freeway	2017
13	11.727	Freeway	2017
14	11.573	Freeway	2017
15	11.443	Freeway	2017
16	11.353	Freeway	2017
17	11.323	Freeway	2017
18	11.299	Freeway	2017
19	11.279	Freeway	2017
20	11.259	Freeway	2017
21	11.243	Freeway	2017
22	11.223	Freeway	2017
23	11.213	Freeway	2017
24	11.199	Freeway	2017
25	11.189	Freeway	2017
26	11.179	Freeway	2017
27	11.169	Freeway	2017
28	11.159	Freeway	2017
29	11.149	Freeway	2017
30	11.139	Freeway	2017
31	11.149	Freeway	2017
32	11.159	Freeway	2017
33	11.169	Freeway	2017
34	11.179	Freeway	2017
35	11.194	Freeway	2017
36	11.264	Freeway	2017
37	11.324	Freeway	2017
38	11.384	Freeway	2017
39	11.444	Freeway	2017
40	11.510	Freeway	2017
41	11.575	Freeway	2017
42	11.640	Freeway	2017
43	11.705	Freeway	2017
44	11.761	Freeway	2017
45	11.831	Freeway	2017



2017 Winter CO - Freeway Light Duty Vehicle Composite				
Veh Speed	CO gr/mi	Road Type	Year	
46	11.901	Freeway	2017	
47	11.961	Freeway	2017	
48	12.026	Freeway	2017	
49	12.091	Freeway	2017	
50	12.162	Freeway	2017	
51	12.226	Freeway	2017	
52	12.292	Freeway	2017	
53	12.362	Freeway	2017	
54	12.432	Freeway	2017	
55	12.498	Freeway	2017	
56	12.568	Freeway	2017	
57	12.633	Freeway	2017	
58	12.703	Freeway	2017	
59	12.773	Freeway	2017	
60	12.843	Freeway	2017	
60.7	12.889	Freeway	2017	
62				

23-May-06

2017 Winter CO - Freeway - Bus				
Veh Speed	CO gr/mi	Road Type	Year	
3	5.373	Freeway	2017	
4	4.916	Freeway	2017	
5	4.642	Freeway	2017	
6	4.270	Freeway	2017	
7	3.909	Freeway	2017	
8	3.639	Freeway	2017	
9	3.429	Freeway	2017	
10	3.261	Freeway	2017	
11	3.079	Freeway	2017	
12	2.867	Freeway	2017	
13	2.687	Freeway	2017	
14	2.533	Freeway	2017	
15	2.399	Freeway	2017	
16	2.274	Freeway	2017	
17	2.143	Freeway	2017	
18	2.026	Freeway	2017	
19	1.922	Freeway	2017	
20	1.829	Freeway	2017	
21	1.742	Freeway	2017	
22	1.659	Freeway	2017	
23	1.583	Freeway	2017	



	2017 Winter CO	- Freeway - Bus	i
Veh Speed	CO gr/mi	Road Type	Year
24	1.513	Freeway	2017
25	1.449	Freeway	2017
26	1.391	Freeway	2017
27	1.337	Freeway	2017
28	1.288	Freeway	2017
29	1.242	Freeway	2017
30	1.198	Freeway	2017
31	1.161	Freeway	2017
32	1.127	Freeway	2017
33	1.095	Freeway	2017
34	1.065	Freeway	2017
35	1.036	Freeway	2017
36	1.015	Freeway	2017
37	0.994	Freeway	2017
38	0.975	Freeway	2017
39	0.956	Freeway	2017
40	0.942	Freeway	2017
41	0.931	Freeway	2017
42	0.921	Freeway	2017
43	0.911	Freeway	2017
44	0.903	Freeway	2017
45	0.901	Freeway	2017
46	0.900	Freeway	2017
47	0.898	Freeway	2017
48	0.897	Freeway	2017
49	0.902	Freeway	2017
50	0.910	Freeway	2017
51	0.917	Freeway	2017
52	0.924	Freeway	2017
53	0.937	Freeway	2017
54	0.955	Freeway	2017
55	0.973	Freeway	2017
56	0.990	Freeway	2017
57	1.012	Freeway	2017
58	1.044	Freeway	2017
59	1.075	Freeway	2017
60	1.106	Freeway	2017
60.7	1.126	Freeway	2017
62			



2017 Winter CO - Freeway All Vehicle Composite				
Veh Speed	CO gr/mi	Road Type	Year	
3	19.651	Freeway	2017	
4	17.106	Freeway	2017	
5	15.580	Freeway	2017	
6	14.473	Freeway	2017	
7	13.639	Freeway	2017	
8	13.013	Freeway	2017	
9	12.526	Freeway	2017	
10	12.136	Freeway	2017	
11	11.825	Freeway	2017	
12	11.577	Freeway	2017	
13	11.367	Freeway	2017	
14	11.186	Freeway	2017	
15	11.030	Freeway	2017	
16	10.914	Freeway	2017	
17	10.861	Freeway	2017	
18	10.813	Freeway	2017	
19	10.770	Freeway	2017	
20	10.732	Freeway	2017	
21	10.696	Freeway	2017	
22	10.664	Freeway	2017	
23	10.635	Freeway	2017	
24	10.608	Freeway	2017	
25	10.583	Freeway	2017	
26	10.560	Freeway	2017	
27	10.539	Freeway	2017	
28	10.520	Freeway	2017	
29	10.502	Freeway	2017	
30	10.485	Freeway	2017	
31	10.483	Freeway	2017	
32	10.488	Freeway	2017	
33	10.493	Freeway	2017	
34	10.497	Freeway	2017	
35	10.503	Freeway	2017	
36	10.563	Freeway	2017	
37	10.619	Freeway	2017	
38	10.673	Freeway	2017	
39	10.723	Freeway	2017	
40	10.780	Freeway	2017	
41	10.841	Freeway	2017	
42	10.900	Freeway	2017	
43	10.955	Freeway	2017	
44	11.010	Freeway	2017	
45	11.076	Freeway	2017	
46	11.139	Freeway	2017	
47	11.199	Freeway	2017	



2017 Winter CO - Freeway All Vehicle Composite					
Veh Speed	CO gr/mi	Road Type	Year		
48	11.257	Freeway	2017		
49	11.324	Freeway	2017		
50	11.391	Freeway	2017		
51	11.456	Freeway	2017		
52	11.519	Freeway	2017		
53	11.589	Freeway	2017		
54	11.667	Freeway	2017		
55	11.743	Freeway	2017		
56	11.816	Freeway	2017		
57	11.891	Freeway	2017		
58	11.975	Freeway	2017		
59	12.057	Freeway	2017		
60	12.135	Freeway	2017		
60.7	12.189	Freeway	2017		

23-May-06

2017 Wii	2017 Winter CO - Arterial All Vehicle Composite					
Veh Speed	CO gr/mi	Road Type	Year			
2.5	21.471	Arterial	2017			
3	19.435	Arterial	2017			
4	16.891	Arterial	2017			
5	15.364	Arterial	2017			
6	14.330	Arterial	2017			
7	13.591	Arterial	2017			
8	13.037	Arterial	2017			
9	12.606	Arterial	2017			
10	12.261	Arterial	2017			
11	11.981	Arterial	2017			
12	11.747	Arterial	2017			
13	11.549	Arterial	2017			
14	11.380	Arterial	2017			
15	11.233	Arterial	2017			
16	11.100	Arterial	2017			
17	10.982	Arterial	2017			
18	10.878	Arterial	2017			
19	10.784	Arterial	2017			
20	10.700	Arterial	2017			
21	10.627	Arterial	2017			
22	10.561	Arterial	2017			
23	10.500	Arterial	2017			
24	10.445	Arterial	2017			
25	10.394	Arterial	2017			
26	10.367	Arterial	2017			
27	10.343	Arterial	2017			



2017 Wi	nter CO - Arteria	al All Vehicle Co	mposite
Veh Speed	CO gr/mi	Road Type	Year
28	10.320	Arterial	2017
29	10.299	Arterial	2017
30	10.279	Arterial	2017
31	10.283	Arterial	2017
32	10.287	Arterial	2017
33	10.291	Arterial	2017
34	10.294	Arterial	2017
35	10.298	Arterial	2017
36	10.358	Arterial	2017
37	10.414	Arterial	2017
38	10.468	Arterial	2017
39	10.518	Arterial	2017
40	10.567	Arterial	2017
41	10.628	Arterial	2017
42	10.687	Arterial	2017
43	10.743	Arterial	2017
44	10.796	Arterial	2017
45	10.847	Arterial	2017
46	10.910	Arterial	2017
47	10.970	Arterial	2017
48	11.028	Arterial	2017
49	11.084	Arterial	2017
50	11.137	Arterial	2017
51	11.202	Arterial	2017
52	11.265	Arterial	2017
53	11.325	Arterial	2017
54	11.383	Arterial	2017
55	11.439	Arterial	2017
56	11.512	Arterial	2017
57	11.582	Arterial	2017
58	11.650	Arterial	2017
59	11.715	Arterial	2017
60	11.779	Arterial	2017
61	11.855	Arterial	2017
62	11.928	Arterial	2017
63	11.999	Arterial	2017
64	12.068	Arterial	2017
65	12.135	Arterial	2017



2026 Summer - Freeway - Light Duty Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	1.306	0.273	Freeway	2026
4	0.884	0.256	Freeway	2026
5	0.631	0.246	Freeway	2026
6	0.507	0.226	Freeway	2026
7	0.440	0.205	Freeway	2026
8	0.390	0.190	Freeway	2026
9	0.351	0.178	Freeway	2026
10	0.320	0.168	Freeway	2026
11	0.297	0.159	Freeway	2026
12	0.281	0.150	Freeway	2026
13	0.267	0.142	Freeway	2026
14	0.255	0.135	Freeway	2026
15	0.245	0.129	Freeway	2026
16	0.236	0.126	Freeway	2026
17	0.229	0.126	Freeway	2026
18	0.223	0.126	Freeway	2026
19	0.218	0.127	Freeway	2026
20	0.213	0.127	Freeway	2026
21	0.209	0.128	Freeway	2026
22	0.205	0.128	Freeway	2026
23	0.202	0.127	Freeway	2026
24	0.200	0.128	Freeway	2026
25	0.198	0.128	Freeway	2026
26	0.195	0.128	Freeway	2026
27	0.193	0.128	Freeway	2026
28	0.191	0.128	Freeway	2026
29	0.189	0.128	Freeway	2026
30	0.187	0.128	Freeway	2026
31	0.186	0.128	Freeway	2026
32	0.184	0.127	Freeway	2026
33	0.182	0.127	Freeway	2026
34	0.181	0.127	Freeway	2026
35	0.180	0.127	Freeway	2026
36	0.179	0.127	Freeway	2026
37	0.178	0.128	Freeway	2026
38	0.176	0.129	Freeway	2026
39	0.176	0.129	Freeway	2026
40	0.175	0.130	Freeway	2026
41	0.174	0.130	Freeway	2026
42	0.173	0.131	Freeway	2026
43	0.172	0.132	Freeway	2026
44	0.171	0.132	Freeway	2026
45	0.171	0.133	Freeway	2026



2026 Summer - Freeway - Light Duty Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
46	0.170	0.133	Freeway	2026
47	0.170	0.134	Freeway	2026
48	0.169	0.135	Freeway	2026
49	0.168	0.136	Freeway	2026
50	0.168	0.137	Freeway	2026
51	0.167	0.137	Freeway	2026
52	0.167	0.138	Freeway	2026
53	0.167	0.138	Freeway	2026
54	0.166	0.139	Freeway	2026
55	0.166	0.140	Freeway	2026
56	0.166	0.140	Freeway	2026
57	0.165	0.141	Freeway	2026
58	0.165	0.142	Freeway	2026
59	0.165	0.143	Freeway	2026
60	0.165	0.143	Freeway	2026
60.7	0.165	0.143	Freeway	2026

May 23, 2006

2026 Summer - Freeway - Bus				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	0.673	2.595	Freeway	2026
4	0.636	2.477	Freeway	2026
5	0.614	2.406	Freeway	2026
6	0.581	2.302	Freeway	2026
7	0.548	2.200	Freeway	2026
8	0.523	2.123	Freeway	2026
9	0.504	2.064	Freeway	2026
10	0.489	2.016	Freeway	2026
11	0.471	1.962	Freeway	2026
12	0.448	1.895	Freeway	2026
13	0.429	1.839	Freeway	2026
14	0.413	1.790	Freeway	2026
15	0.398	1.748	Freeway	2026
16	0.384	1.708	Freeway	2026
17	0.368	1.665	Freeway	2026
18	0.354	1.627	Freeway	2026
19	0.341	1.592	Freeway	2026
20	0.330	1.561	Freeway	2026
21	0.319	1.533	Freeway	2026
22	0.307	1.506	Freeway	2026
23	0.297	1.482	Freeway	2026
24	0.287	1.459	Freeway	2026
25	0.278	1.439	Freeway	2026



	2026 Summer - Freeway - Bus					
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year		
26	0.269	1.421	Freeway	2026		
27	0.261	1.408	Freeway	2026		
28	0.253	1.395	Freeway	2026		
29	0.246	1.383	Freeway	2026		
30	0.239	1.372	Freeway	2026		
31	0.232	1.366	Freeway	2026		
32	0.226	1.363	Freeway	2026		
33	0.220	1.361	Freeway	2026		
34	0.214	1.358	Freeway	2026		
35	0.209	1.357	Freeway	2026		
36	0.204	1.365	Freeway	2026		
37	0.200	1.373	Freeway	2026		
38	0.196	1.380	Freeway	2026		
39	0.191	1.387	Freeway	2026		
40	0.188	1.401	Freeway	2026		
41	0.184	1.421	Freeway	2026		
42	0.181	1.440	Freeway	2026		
43	0.178	1.458	Freeway	2026		
44	0.175	1.477	Freeway	2026		
45	0.172	1.512	Freeway	2026		
46	0.170	1.546	Freeway	2026		
47	0.168	1.579	Freeway	2026		
48	0.165	1.610	Freeway	2026		
49	0.164	1.658	Freeway	2026		
50	0.162	1.712	Freeway	2026		
51	0.161	1.763	Freeway	2026		
52	0.159	1.813	Freeway	2026		
53	0.158	1.878	Freeway	2026		
54	0.157	1.959	Freeway	2026		
55	0.157	2.038	Freeway	2026		
56	0.156	2.113	Freeway	2026		
57	0.155	2.203	Freeway	2026		
58	0.155	2.324	Freeway	2026		
59	0.155	2.441	Freeway	2026		
60	0.155	2.555	Freeway	2026		
60.7	0.155	2.632	Freeway	2026		

May 23, 2006



	2026 Summer - Freeway - All Vehicle Composite			
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
3	1.337	0.351	Freeway	2026
4	0.928	0.331	Freeway	2026
5	0.682	0.319	Freeway	2026
6	0.557	0.297	Freeway	2026
7	0.488	0.274	Freeway	2026
8	0.436	0.257	Freeway	2026
9	0.396	0.244	Freeway	2026
10	0.364	0.233	Freeway	2026
11	0.339	0.223	Freeway	2026
12	0.321	0.212	Freeway	2026
13	0.305	0.203	Freeway	2026
14	0.292	0.195	Freeway	2026
15	0.280	0.189	Freeway	2026
16	0.270	0.184	Freeway	2026
17	0.262	0.184	Freeway	2026
18	0.255	0.183	Freeway	2026
19	0.248	0.183	Freeway	2026
20	0.242	0.182	Freeway	2026
21	0.237	0.182	Freeway	2026
22	0.233	0.181	Freeway	2026
23	0.229	0.181	Freeway	2026
24	0.226	0.181	Freeway	2026
25	0.223	0.180	Freeway	2026
26	0.220	0.180	Freeway	2026
27	0.217	0.180	Freeway	2026
28	0.214	0.180	Freeway	2026
29	0.211	0.179	Freeway	2026
30	0.209	0.179	Freeway	2026
31	0.207	0.179	Freeway	2026
32	0.205	0.179	Freeway	2026
33	0.203	0.179	Freeway	2026
34	0.201	0.179	Freeway	2026
35	0.199	0.178	Freeway	2026
36	0.197	0.179	Freeway	2026
37	0.196	0.180	Freeway	2026
38	0.195	0.181	Freeway	2026
39	0.193	0.182	Freeway	2026
40	0.192	0.183	Freeway	2026
41	0.191	0.184	Freeway	2026
42	0.190	0.185	Freeway	2026
43	0.189	0.186	Freeway	2026
44	0.188	0.188	Freeway	2026
45	0.187	0.189	Freeway	2026



2026 Summer - Freeway - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year
46	0.186	0.191	Freeway	2026
47	0.185	0.193	Freeway	2026
48	0.185	0.194	Freeway	2026
49	0.184	0.196	Freeway	2026
50	0.183	0.199	Freeway	2026
51	0.183	0.201	Freeway	2026
52	0.182	0.203	Freeway	2026
53	0.182	0.206	Freeway	2026
54	0.182	0.209	Freeway	2026
55	0.182	0.212	Freeway	2026
56	0.182	0.215	Freeway	2026
57	0.182	0.218	Freeway	2026
58	0.183	0.222	Freeway	2026
59	0.183	0.226	Freeway	2026
60	0.183	0.230	Freeway	2026
60.7	0.183	0.233	Freeway	2026

May 23, 2006

	2026 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
2.5	1.633	0.374	Arterial	2026	
3	1.305	0.358	Arterial	2026	
4	0.896	0.338	Arterial	2026	
5	0.650	0.326	Arterial	2026	
6	0.558	0.305	Arterial	2026	
7	0.492	0.290	Arterial	2026	
8	0.442	0.278	Arterial	2026	
9	0.404	0.269	Arterial	2026	
10	0.373	0.262	Arterial	2026	
11	0.352	0.251	Arterial	2026	
12	0.334	0.242	Arterial	2026	
13	0.319	0.235	Arterial	2026	
14	0.306	0.228	Arterial	2026	
15	0.295	0.222	Arterial	2026	
16	0.284	0.217	Arterial	2026	
17	0.274	0.212	Arterial	2026	
18	0.265	0.208	Arterial	2026	
19	0.257	0.204	Arterial	2026	
20	0.249	0.201	Arterial	2026	
21	0.244	0.198	Arterial	2026	
22	0.239	0.195	Arterial	2026	
23	0.234	0.193	Arterial	2026	
24	0.230	0.190	Arterial	2026	



	2026 Summer - Arterial - All Vehicle Composite				
Veh Speed	VOC gr/mi	NOx gr/mi	Road Type	Year	
25	0.226	0.188	Arterial	2026	
26	0.222	0.186	Arterial	2026	
27	0.218	0.185	Arterial	2026	
28	0.215	0.183	Arterial	2026	
29	0.212	0.182	Arterial	2026	
30	0.209	0.180	Arterial	2026	
31	0.207	0.179	Arterial	2026	
32	0.204	0.179	Arterial	2026	
33	0.202	0.178	Arterial	2026	
34	0.200	0.177	Arterial	2026	
35	0.198	0.177	Arterial	2026	
36	0.197	0.177	Arterial	2026	
37	0.195	0.178	Arterial	2026	
38	0.194	0.179	Arterial	2026	
39	0.193	0.180	Arterial	2026	
40	0.191	0.180	Arterial	2026	
41	0.190	0.182	Arterial	2026	
42	0.189	0.183	Arterial	2026	
43	0.188	0.184	Arterial	2026	
44	0.187	0.185	Arterial	2026	
45	0.186	0.186	Arterial	2026	
46	0.185	0.188	Arterial	2026	
47	0.185	0.190	Arterial	2026	
48	0.184	0.191	Arterial	2026	
49	0.183	0.193	Arterial	2026	
50	0.182	0.194	Arterial	2026	
51	0.182	0.196	Arterial	2026	
52	0.181	0.199	Arterial	2026	
53	0.181	0.201	Arterial	2026	
54	0.180	0.203	Arterial	2026	
55	0.180	0.205	Arterial	2026	
56	0.180	0.208	Arterial	2026	
57	0.180	0.210	Arterial	2026	
58	0.180	0.213	Arterial	2026	
59	0.180	0.216	Arterial	2026	
60	0.180	0.218	Arterial	2026	
61	0.180	0.222	Arterial	2026	
62	0.180	0.226	Arterial	2026	
63	0.181	0.229	Arterial	2026	
64	0.181	0.233	Arterial	2026	
65	0.181	0.236	Arterial	2026	



2026 Winter 0	CO - Freeway - L	ight Duty Vehic	le Composite
Veh Speed	CO gr/mi	Road Type	Year
3	17.889	Freeway	2026
4	15.617	Freeway	2026
5	14.261	Freeway	2026
6	13.308	Freeway	2026
7	12.608	Freeway	2026
8	12.074	Freeway	2026
9	11.670	Freeway	2026
10	11.340	Freeway	2026
11	11.090	Freeway	2026
12	10.900	Freeway	2026
13	10.734	Freeway	2026
14	10.604	Freeway	2026
15	10.484	Freeway	2026
16	10.398	Freeway	2026
17	10.378	Freeway	2026
18	10.358	Freeway	2026
19	10.338	Freeway	2026
20	10.324	Freeway	2026
21	10.308	Freeway	2026
22	10.298	Freeway	2026
23	10.288	Freeway	2026
24	10.278	Freeway	2026
25	10.268	Freeway	2026
26	10.258	Freeway	2026
27	10.248	Freeway	2026
28	10.238	Freeway	2026
29	10.228	Freeway	2026
30	10.223	Freeway	2026
31	10.228	Freeway	2026
32	10.238	Freeway	2026
33	10.248	Freeway	2026
34	10.264	Freeway	2026
35	10.274	Freeway	2026
36	10.334	Freeway	2026
37	10.394	Freeway	2026
38	10.454	Freeway	2026
39	10.510	Freeway	2026
40	10.566	Freeway	2026
41	10.630	Freeway	2026
42	10.692	Freeway	2026
43	10.746	Freeway	2026
44	10.802	Freeway	2026
45	10.867	Freeway	2026



2026 Winter 0	2026 Winter CO - Freeway - Light Duty Vehicle Composite				
Veh Speed	CO gr/mi	Road Type	Year		
46	10.927	Freeway	2026		
47	10.987	Freeway	2026		
48	11.047	Freeway	2026		
49	11.113	Freeway	2026		
50	11.173	Freeway	2026		
51	11.239	Freeway	2026		
52	11.299	Freeway	2026		
53	11.359	Freeway	2026		
54	11.425	Freeway	2026		
55	11.490	Freeway	2026		
56	11.550	Freeway	2026		
57	11.610	Freeway	2026		
58	11.680	Freeway	2026		
59	11.746	Freeway	2026		
60	11.806	Freeway	2026		
60.7	11.852	Freeway	2026		

23-May-06

	2026 Winter CO	- Freeway - Bus	3
Veh Speed	CO gr/mi	Road Type	Year
3	2.001	Freeway	2026
4	1.831	Freeway	2026
5	1.729	Freeway	2026
6	1.590	Freeway	2026
7	1.456	Freeway	2026
8	1.356	Freeway	2026
9	1.277	Freeway	2026
10	1.215	Freeway	2026
11	1.147	Freeway	2026
12	1.068	Freeway	2026
13	1.001	Freeway	2026
14	0.943	Freeway	2026
15	0.894	Freeway	2026
16	0.847	Freeway	2026
17	0.798	Freeway	2026
18	0.755	Freeway	2026
19	0.716	Freeway	2026
20	0.681	Freeway	2026
21	0.649	Freeway	2026
22	0.618	Freeway	2026
23	0.590	Freeway	2026
24	0.564	Freeway	2026
25	0.540	Freeway	2026



	2026 Winter CO - Freeway - Bus				
Veh Speed	CO gr/mi	Road Type	Year		
26	0.518	Freeway	2026		
27	0.498	Freeway	2026		
28	0.480	Freeway	2026		
29	0.462	Freeway	2026		
30	0.446	Freeway	2026		
31	0.432	Freeway	2026		
32	0.420	Freeway	2026		
33	0.408	Freeway	2026		
34	0.397	Freeway	2026		
35	0.386	Freeway	2026		
36	0.378	Freeway	2026		
37	0.370	Freeway	2026		
38	0.363	Freeway	2026		
39	0.356	Freeway	2026		
40	0.351	Freeway	2026		
41	0.347	Freeway	2026		
42	0.343	Freeway	2026		
43	0.340	Freeway	2026		
44	0.336	Freeway	2026		
45	0.336	Freeway	2026		
46	0.335	Freeway	2026		
47	0.335	Freeway	2026		
48	0.334	Freeway	2026		
49	0.336	Freeway	2026		
50	0.339	Freeway	2026		
51	0.342	Freeway	2026		
52	0.344	Freeway	2026		
53	0.349	Freeway	2026		
54	0.356	Freeway	2026		
55	0.362	Freeway	2026		
56	0.369	Freeway	2026		
57	0.377	Freeway	2026		
58	0.389	Freeway	2026		
59	0.401	Freeway	2026		
60	0.412	Freeway	2026		
60.7	0.419	Freeway	2026		



2026 Win	ter CO - Freeway	y - All Vehicle C	omposite
Veh Speed	CO gr/mi	Road Type	Year
3	17.618	Freeway	2026
4	15.375	Freeway	2026
5	14.029	Freeway	2026
6	13.050	Freeway	2026
7	12.309	Freeway	2026
8	11.753	Freeway	2026
9	11.321	Freeway	2026
10	10.975	Freeway	2026
11	10.699	Freeway	2026
12	10.478	Freeway	2026
13	10.291	Freeway	2026
14	10.131	Freeway	2026
15	9.992	Freeway	2026
16	9.889	Freeway	2026
17	9.842	Freeway	2026
18	9.801	Freeway	2026
19	9.763	Freeway	2026
20	9.730	Freeway	2026
21	9.699	Freeway	2026
22	9.671	Freeway	2026
23	9.645	Freeway	2026
24	9.622	Freeway	2026
25	9.600	Freeway	2026
26	9.580	Freeway	2026
27	9.562	Freeway	2026
28	9.545	Freeway	2026
29	9.530	Freeway	2026
30	9.515	Freeway	2026
31	9.514	Freeway	2026
32	9.518	Freeway	2026
33	9.522	Freeway	2026
34	9.526	Freeway	2026
35	9.531	Freeway	2026
36	9.586	Freeway	2026
37	9.639	Freeway	2026
38	9.688	Freeway	2026
39	9.735	Freeway	2026
40	9.787	Freeway	2026
41	9.843	Freeway	2026
42	9.897	Freeway	2026
43	9.949	Freeway	2026
44	9.999	Freeway	2026
45	10.060	Freeway	2026



2026 Win	2026 Winter CO - Freeway - All Vehicle Composite				
Veh Speed	CO gr/mi	Road Type	Year		
46	10.118	Freeway	2026		
47	10.174	Freeway	2026		
48	10.227	Freeway	2026		
49	10.288	Freeway	2026		
50	10.351	Freeway	2026		
51	10.411	Freeway	2026		
52	10.468	Freeway	2026		
53	10.533	Freeway	2026		
54	10.606	Freeway	2026		
55	10.676	Freeway	2026		
56	10.744	Freeway	2026		
57	10.814	Freeway	2026		
58	10.892	Freeway	2026		
59	10.968	Freeway	2026		
60	11.041	Freeway	2026		
60.7	11.091	Freeway	2026		

23-May-06

2026 Win	ter CO - Arteria	I - All Vehicle Co	omposite
Veh Speed	CO gr/mi	Road Type	Year
2.5	19.223	Arterial	2026
3	17.429	Arterial	2026
4	15.186	Arterial	2026
5	13.840	Arterial	2026
6	12.924	Arterial	2026
7	12.270	Arterial	2026
8	11.779	Arterial	2026
9	11.397	Arterial	2026
10	11.092	Arterial	2026
11	10.843	Arterial	2026
12	10.635	Arterial	2026
13	10.459	Arterial	2026
14	10.309	Arterial	2026
15	10.178	Arterial	2026
16	10.060	Arterial	2026
17	9.955	Arterial	2026
18	9.863	Arterial	2026
19	9.780	Arterial	2026
20	9.705	Arterial	2026
21	9.639	Arterial	2026
22	9.580	Arterial	2026
23	9.526	Arterial	2026
24	9.476	Arterial	2026



2026 Win	2026 Winter CO - Arterial - All Vehicle Composite				
Veh Speed	CO gr/mi	Road Type	Year		
25	9.430	Arterial	2026		
26	9.407	Arterial	2026		
27	9.386	Arterial	2026		
28	9.367	Arterial	2026		
29	9.349	Arterial	2026		
30	9.332	Arterial	2026		
31	9.336	Arterial	2026		
32	9.339	Arterial	2026		
33	9.343	Arterial	2026		
34	9.346	Arterial	2026		
35	9.349	Arterial	2026		
36	9.404	Arterial	2026		
37	9.457	Arterial	2026		
38	9.506	Arterial	2026		
39	9.553	Arterial	2026		
40	9.597	Arterial	2026		
41	9.654	Arterial	2026		
42	9.708	Arterial	2026		
43	9.759	Arterial	2026		
44	9.808	Arterial	2026		
45	9.855	Arterial	2026		
46	9.914	Arterial	2026		
47	9.969	Arterial	2026		
48	10.023	Arterial	2026		
49	10.074	Arterial	2026		
50	10.123	Arterial	2026		
51	10.183	Arterial	2026		
52	10.241	Arterial	2026		
53	10.297	Arterial	2026		
54	10.350	Arterial	2026		
55	10.402	Arterial	2026		
56	10.469	Arterial	2026		
57	10.534	Arterial	2026		
58	10.597	Arterial	2026		
59	10.658	Arterial	2026		
60	10.717	Arterial	2026		
61	10.788	Arterial	2026		
62	10.856	Arterial	2026		
63	10.922	Arterial	2026		
64	10.987	Arterial	2026		
65	11.049	Arterial	2026		

Appendix C SNHPC Report



Southern New Hampshire Planning Commission

438 Dubuque Street, Manchester, NH, 03038 Phone (603) 669-4664 • Fax (603) 669-4350

Air Quality Analysis

for the

NHDOT Ten Year Transportation Improvement Plan 2007-2016

and the Regional Transportation Plan

Prepared by the Southern New Hampshire Planning Commission



This report presents the results of an air quality analysis of the Southern New Hampshire Planning Commission's Regional Transportation Plan and the State's Ten Year Transportation Improvement Program (FY 2007 – 2016) to the State Implementation Plan (SIP). The Clean Air Act requires a conformity demonstration of the Transportation Plan and TIP in any area designated as "non-attainment" for a pollutant for which National Ambient Air Quality Standard (NAAQS) exists. Portions of the Seacoast and Southern New Hampshire areas have been designated as non-attainment for ground level ozone. In addition, the City of Manchester was previously designated non-attainment for carbon monoxide (CO). The City is required to demonstrate conformity to a 20 year maintenance plan to ensure it continues to achieve compliance with the CO standard.

The air quality analysis focuses on three types of emissions: Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx) and Carbon Monoxide (CO). Both VOC and NOx have been identified to be precursors to ozone production. Regulations regarding conformity determinations are found in Title 40 Code of Federal Regulations Part 93. These rules were amended in July 2004 to incorporate methodologies to be used to demonstrate conformity under the new, more stringent 8-hour ozone standard.

The Southern New Hampshire Planning Commission region consists of the **City of Manchester** and twelve surrounding towns which include:

Auburn	Chester	Goffstown	New Boston
Bedford	Deerfield	Hooksett	Raymond
Candia	Derry	Londonderry	Weare

All of the communities in the SNHPC region with the exception of Deerfield, New Boston and Weare are included in the Boston-Manchester-Portsmouth (SE), New Hampshire Non-Attainment area. Additionally, the Towns of Derry and Londonderry are part of the previously designated Serious Southern New Hampshire Non-Attainment area. The Serious Southern New Hampshire Non-Attainment area has been retained for this conformity analysis by the Environmental Protection Agency (EPA) and the Federal Highway Administration (FHWA) until a motor vehicle budget for the 8-hour ozone non-attainment area has been established.

I-1 Background Information

In 1997, the EPA proposed to replace the 1-Hour Ozone standard with a new 8-Hour standard, along with adding a new fine particle standard (PM_{2.5}) to the existing PM₁₀ standard. In April of 2004, the EPA designated new non-attainment areas based on the 8-Hour standard. Under the new standard, New Hampshire has a single, ozone non-attainment area (Boston-Manchester-Portsmouth (SE), New Hampshire Non-Attainment area). The relevant tests for conformity will be performed by the NHDOT once air quality analyses results for the entire non-attainment area have been received from the MPOs. Conformity under the 8-hour standard must be demonstrated for the State Implementation Plan (SIP) no later than October 1, 2006 or the State will be in a lapse.

Under the direction of the NHDOT and the New Hampshire Department of Environmental Services (DES), the SNHPC has been instructed to perform the following tests in order to complete the air quality analyses for this region:

For the communities in the Boston-Manchester-Portsmouth (SE), New Hampshire Non-Attainment area:

- All of the emissions (VOC and NOx) in the future years should be less than the base year (2002), and,
- Build scenario emissions should be less than the no-build scenario emissions.

For the communities in the Serious Southern New Hampshire Non-Attainment area:

- All of the emissions (VOC and NOx) in the future years should be less than the base year (2002), and,
- Build scenario emissions should be less than the no-build scenario emissions.

For the City of Manchester:

• Build scenario emissions (CO) years should be less than the emissions "budget" which has been established by the NHDOT through consultation with the FHWA/EPA.

I-2 Changes Since The Last Conformity Analysis

The last conformity report, submitted to the NHDOT in May 2005, was designed to demonstrate conformity of the SNHPC Regional Transportation Plan, the FY 2005-2007 Transportation Improvement Program and the State's Ten Year Transportation Improvement Program (FY 2007 – 2016) to the State Implementation Plan (SIP). The baseline year of 2002 has been retained from the previous analyses along with the 2007 budget year. The attainment year of 2009, which represents the attainment year under the 8-hour ozone standard has also been retained, along with the previous CO analysis years 2010 and 2017. Finally, 2026 has been established as the year representing the final year of the regional long-range plans. Therefore, the analysis years used in this air quality analysis are 2002 (baseline) 2007, 2009, 2010 (CO only), 2017 (ozone and CO), and 2026 (ozone and CO).



The following section presents the methodology used for air quality analysis for the Southern New Hampshire Planning Commission's Regional Transportation Plan and the State's Ten Year Transportation Improvement Program (FY 2007 – 2016) to the State Implementation Plan (SIP).

II-1 Projects Included In The Air Quality Analysis

Projects considered for air quality analysis could be grouped into two categories: Exempt projects and Not Exempt projects. These are defined as follows:

<u>Exempt Projects</u>: Exempt projects are defined as highway and transit projects that are exempt from the requirement that a conformity determination be made. Examples of such projects might include, but are not limited to, hazard elimination programs, shoulder improvements, increasing sight distance, pavement resurfacing, purchase of support vehicles, vehicles for mass transit, planning and technical studies, etc. Such projects may proceed towards implementation even in the absence of a conforming Transportation Plan and TIP. States and MPOs must ensure that exempt projects do not interfere with TCM implementation.

<u>Not Exempt Projects</u>: These are projects for which there are potential emission impacts on air quality.

Table 1 shows the list of Exempt projects in the Southern New Hampshire Planning Commission region. A brief description of some of these projects is provided in Appendix A towards the end of this report. The list of Not Exempt projects is provided in Table 2, with a brief description of some of the projects included in Appendix B. These lists (Table 1 and Table 2) also show if the projects are coded into the Regional Transportation Model. These projects were selected from the Regional Transportation Plan, Transportation Improvement Program, and the approved list of Congestion Mitigation and Air Quality (CMAQ) and Transportation Enhancement (TE) projects. The project completion years were determined in consultation with Municipalities and the New Hampshire Department of Transportation (NH DOT).

II-2 Analysis Years

The analysis years for the air quality analysis, summarized in Section I-2, are shown in Table 3.

TABLE 1 LIST OF EXEMPT PROJECTS

			ſ	1	Included
Community ⁻	Area Designation	Project	Exempt Code	Project #	in the Model
AU	IB-M-P	Replace Bridge over Preston Brook on Dearborn Road	E-19	14082	No
BE	B-M-P	NH101 Roadway/Bridge Reconstruction from I-293 Interchange West to Plummer Rd	E-10	10018D	No
BE	B-M-P	Replace Bridge on US3 Over F.E.Everett Turnpike & Associated Approach Work	E-19	13527	No
BE	B-M-P	Replace Bridge over McQuade Brook on Campbell Road	E-19	14070	No
BE	B-M-P	Rehabilitate Bridge over Riddle Brook on North Amherst Roac	E-19	14084	No
BE	B-M-P	Safety Improvements at Hardy/Jenkins Road Intersection	E-51		No
BE	B-M-P	Landscaping Kilton Rd, US3, Berm Along NH 101 On-Ramp	E-42	10018F	No
BE	B-M-P	Intersection Improvement at Hardy/Jenkins	E-52	13692A	No
BE-MA-LO	B-M-P/B-M-P and CONAT/S	Earthwork contract west of the Merrimack River	E-42	11512J	No
BE-MA-LO	B-M-P/B-M-P and CONAT/S	Selects, final paving and miscellaneous west of Merrimack river	E-10	11512 K	No
CH	B-M-P	Replace Bridge Over North Pond Brook on Fremont Road	E-19	13696	No
DE	S	Intersection Improvement at NH 102 and NH 28	E-51	13249	No
DE	S	Rehab/Replace Bridge over Tributary 'G' on Bradford St	E-19	13648	No
DE	S	Rehab/Replace Bridge over Beaver Brook on Fordway Road	E-19	13650	No
DE	9	Rehab/Replace Bridge over Shield Brook on South Ave	E-19	13651	No
DE	9	Rehab/Replace Bridge over Shield Brook on Florence Street	E-19	13652	No
DE	0	Intersection improvements at kilrea road & windham depot road	E-19 E-52	13032	No
DE DE	5		E-32 E-10	14192	No
	S D M D	Reconstruction from linlew drive to skobie pond road		14192	
GO	B-M-P	Reconstruction of Mast St and N Main St	E-52	10000	No
GO	B-M-P	Replace Bridge over Whittle Brook on Mountain Road	E-19	13686	No
GO	B-M-P	Replace Bridge over Harry Brook on Henry Bridge Roac	E-19	13687	No
GO	B-M-P	Replace Bridge over Whittle Brook on Mountain Road	E-19	13695	No
НО	B-M-P	Rehabilitate rest area	E-15		No
НО	B-M-P	Bridge Rehabilitation over I-93/F.E.E.T	E-19	13715	No
НО	B-M-P	Maintenance building heating system replacement	E-45	14504	No
НО-НА	B-M-P	Re-ROOF Plaza Canopies	E-45	14508	No
LO	S	Mammoth Rd/Litchfield Stonehenge/Bartley Hill Rd Intersection Study	E-34	13015	No
LO-DE	S/S	Construct Shoulders and Upgrade Drainage from NH 128 in Londonderry to Derry Compact Line	E-4	13791	No
MA	B-M-P and CONAT	Operating Assistance for Fixed Route and Paratransit System (Two in one)	E-21		No
MA	B-M-P and CONAT	Capital Assistance for Preventive Maintenance of MTA Fleet	E-30		No
MA	B-M-P and CONAT	Capital Purchases	E-30		No
MA	B-M-P and CONAT	Replacement Buses	E-30		No
MA	B-M-P and CONAT	Regineed and Highway Grade Crossings in Granite Street Area, Reconstruct Crossing and Signals at B&M RR	E-30		No
MA	B-M-P and CONAT	I-293/FEET Reconstruction and Bridge Rehab between NH 101 and Granite Street	E-10		No
MA	B-M-P and CONAT		E-10		No
	B-M-P and CONAT	Replace Radio System	E-23		
MA	B-M-P and CONAT	Paratransit Scheduling Software			No
MA	B-M-P and CONAT	Maintenance Management Software	E-24	101100	No
MA	B-M-P and CONAT	Pavement Rehab and Bridge Recons from Merrimack River East to I-93 Int	E-10	12110B	No
MA	B-M-P and CONAT	Pvmt Rehab of I-93/I-293 Ramps & Rehab Brdg Decks Over Mammoth Rd	E-10	12110C	No
MA	B-M-P and CONAT	FEE Turnpike - Relocation of Allard Dr,Turner St, and Utilities	E-53	10622B	No
SA/MA	S/B-M-P and CONAT	Environmental Impact Study	E-34	10418C	No
SA/MA	S/B-M-P and CONAT	Wetland Mitigation, Acquisition, Design, and Construction	E-40	10418E	No
MA	B-M-P and CONAT	Roadway Reconstruction and bridge rehabilitation between NH 101 and granite street:144/066,146/065,149/063,153/061	E-19		No
MA	B-M-P and CONAT	Replacement buses & PARATRANSIT VANS	E-30		No
MA	B-M-P and CONAT	Replacement of ADA PARATRANSIT VANS	E-30		No
MA	B-M-P and CONAT	Replacement of Transit service vehicles	E-30		No
MA	B-M-P and CONAT	Transit Facility Improvement/Shop Equipment Replacemen	E-24	1	No
MA	B-M-P and CONAT	Transit office equipment /MIS Hardware% Software	E-24	1	No
MA	B-M-P and CONAT	Rehabilitate bridge over black brook between exits 6 & 7 - 099/066 & 099/067	E-19	14048	No
MA	B-M-P and CONAT	DECK Replacement; Pier Rehabilitation; Seismic retrofit, Over I-93 - 166/124 & 166/125	E-19	14170	No
MA	B-M-P and CONAT	Bridge replacement over HOGG Brook - 169/137	E-19	14306	No
MA	B-M-P and CONAT	Improvements to develop the former Manchester & portmouth branch railroad for bicycle and pedestrian	F-113	17300	140
IVIA	B-IVI-P and CONAT	access from tarrytown road south to lake masssabesic. The project also includes construction of a	E-52	14411	No
MA	B-M-P and CONAT	pedestrian culvert at a pedestrian culvert at Peabody Ave. Piscataquog trailway phase III - Improve rail corridor drom Biron Bridge to the city/town line with Goffstown.	E-52		
MA-WE	B-M-P and CONAT	Rehabilitate wood trestle bridge over the piscataquog river. This is the final phase of a 3 phase project. (Including project 13493) Phase 2: Development of the former Manchester & No, Weare railroad into an alternative Trans. System & Rec. Trail;	E-52	14412	No
		construct remaining 1.3 miles abandoned railroad in Manchester which extends from west side of so. Main st. to Goffstown		13898	No
MA-Au	B-M-P and CONAT/B-M-P	Rehab from I-93 east to service brook (NH 101)	E-10	12609	No
MA	B-M-P and CONAT	Manchester Metropolitan Organization transit planning	E-36	5303-MP-1	No
MA-CO	B-M-P and CONAT	Replace signs & 3 overhead sign structures (OHSS) and remove 2 OHSS; OHSS locations are at I-293 Exit 4 and I-93 Exit 11 & 4	E-43	14099	No
MA-HO	B-M-P and CONAT/B-M-P	Cold plane 2 "And 3" Overlay From the Merrimack river to I-293 (1.0 Miles	E-10		No
MA-HO	B-M-P and CONAT/B-M-P	Safety Improvements, Including shoulder widenings & intersection improvement	E-6	13917	No
SA-MA	B-M-P and CONAT/B-M-P	193 Reconstruction and Mitigation	E-40	10418	No
SA-MA	B-M-P and CONAT/B-M-P	Implement expanded bus service & new commuter incentive program. Purchase 14 commuter coaches	E-30	10418L	No
O, CIVIC	S WET AND CONAT/BEINER	Implement expanded but service a riew commuter incentive program. Purchase 14 commuter coaches & provide 3 years of operating support	L-30	TOT TOL	140
SA-MA	B-M-P and CONAT/B-M-P	Bus maintenance facility at Exit 5 (Londonderry)	E-53	10418N	No
OM-IVIA	D-IVI-F AIRU COINA I/D-IVI-P	Dus maintenance racinty at Exit 3 (Condonderry)	೯-೮೦	1041011	INU

Community [*]	Area Designation⁻	Project	Exempt Code	Project #	Included in the Model
SA-MA		Construction of wetland mitigation sites in anticipation of wetland impacts associated with future Improvements to I-93 from Salem to Manchester. Includes: Londonderry L-8,L-8 Extension, L-12 sites;			No
		& Londonderry advance Mitigation/ wetland creation	E-40	10418F	NO
	B-M-P and CONAT/B-M-P	Water quality study	E-34	10418W	No
NA-CO	B-M-P	Central Turnpike Resurfacing for SFY 2006	E-10		No
		Central Turnpike Resurfacing for SFY 2007	E-10		No
NA-CO	B-M-P	Central Turnpike Resurfacing for SFY 2005	E-10		No

Source: Fy 2007-2016 Ten-Year Plan, SNHPC Regional Transportation Plan 2004

¹ AU=Auburn, BE=Bedford, CO=Concord, DE=Derry, GO=Goffstown, HO=Hooksett, HU=Hudson, LO=Londonderry, MA=Manchester, NA=Nashua, SA=Salem, WE=Weare

² Area Designation: B-M-P=Boston-Manchester-Portsmouth (SE), NH Non-attainment Area S=Serious So. NH Non-Attainment Area, CONAT=CO Not Classified Non-Attainment Area Exempt Code. Explanation is given in Appendix E

TABLE 2 LIST OF NON-EXEMPT PROJECTS

					Regionally	Included	Proposed	Opening
	Area				Significant	in the	Completion	Year of AQ
Community'	Designation ^c	Project	Project #	Category	Project	Model	Year	Analysis
	B-M-P	Construct WB-On & WB-Off Ramps From NH 101 to Kilton Rd	10018E	No-Build	No	Yes	2005	
BE	B-M-P	Widen NH 101 to 5 Lanes from Constitution Dr up to Wallace Rd	13953	Build	No	Yes	2014	2017
BE	B-M-P	Widen NH 101 to 5 Lanes from Wallace Rd up to Amherst TL		Build	No	Yes	2025	2026
BE	B-M-P	Widen US 3 to 5 Lanes from Bridge over FEET to Merrimack TL ³		Build	No	Yes	2025	2026
BE	B-M-P	Toll Plaza Expansion Adding 1 Toll Booth in Each Direction - Fee Turnpike	13603	No-Build	No	Yes	2004	
	B-M-P	Widen Meetinghouse Road from US3 to Meetinghouse Terrace and Signalize	14367	Build	No	Yes	2010	2010
BE/MA/LO	B-M-P/B-M-P and CONAT/S	Build Airport Access Road	11512	Build	No	Yes	2010	2010
BE-MA	B-M-P/B-M-P and CONAT	Construction Bridge over Merrimack River, NH3A, and Bridge Box Culvert under NH - Airport Access Road	11512 A	Build	No	Yes	2010	2010
BE-Ma-LO	B-M-P/B-M-P and CONAT/S	Construct Fee TPK bridge over Manchester airport Access road (MAAR) and Ramp A & C Bridge	11512 C	Build	No	Yes	2010	2010
	B-M-P/B-M-P and CONAT/S	Construct Bridge over Little Cohas river and roadway into Manchester air port	11512D	Build	No	Yes	2010	
	B-M-P/B-M-P and CONAT/S	Improve Access from F.E.E.T to Manchester Airport and surrounding area	11512E	Build	No	Yes	2010	2010
	B-M-P/B-M-P and CONAT/S	Construct US 3, Ramps H and J, and Airport Access Road Bridge Over Us 3	11512F	Build	Yes	Yes	2010	
	B-M-P/B-M-P and CONAT/S	Construct North of little Cohas bridge and final paving to NH 3A	11512H	Build	Yes	Yes	2010	
	B-M-P/B-M-P and CONAT/S	Widen FEE Turnpike	115121	Build	Yes	Yes	2010	
	S/S	Construction of Exit 4A -I-93	13065	Build	Yes	Yes	2011	2017
	S	Widen NH 28 to 5 Lanes from Ross's Corner to Londonderry Town Line		Build	No	Yes	2010	
	B-M-P	Intersection Improvement at US3/NH28 and NH 28 Bypass Int. & Coord signals	12537	No-Build	Yes	Yes/Off-Mod	2005	2007
	B-M-P	Widen US3/NH28 to 5 Lanes from Benton Rd to Martins Ferry Rd	12537A	Build	Yes	Yes	2007	2007
НО	B-M-P	Widen US3/NH28 to 5 Lanes from Martins Ferry Rd to West Alice Ave		Build	Yes	Yes	2025	2026
	B-M-P	Construct Southern Segment of US3/NH28 Alternate Bypass ³		Build	Yes	Yes	2017	2017
	B-M-P	Construct Northern Segment of US3/NH28 Alternate Bypass ³		Build	Yes	Yes	2025	2026
	B-M-P	Widen US3/NH28 to 5 Lanes from Legends Dr to Hunt Street		Build	Yes	Yes	2017	2017
НО	B-M-P	Build a Connector Road between US3/NH28 and Merrimack Street'	14320	Build	No	Yes	2007	2007
LO	S	Widen NH 102 to 4 lanes from Hudson Town Line to NH 128		Build	No	Yes	2025	2026
LO	S	Widen NH 102 to 5 lanes from I-93 East to Londonderry Road*		Build	No	Yes	2017	2017
LO	S	Widen NH 102 to 6 lanes from Buttrick Rd to NH 1283		Build	No	Yes	2017	2017
LO	S	Intersection Improvements at NH28/NH128 for safety and Traffic Flow		Build	No	Yes	2015	2017
LO	S	Coordinate Traffic Signals on NH 102 from I-93 to NH 128	13116	No-Build	No	Off-Model	2005	2007
	S	Construct approximately 6200 ft. of multipurpose path from Pills to Mammoth	13872	Build	No	Off-Model	2007	
LO	S	Construct Pettingill Rd connecting Harvey Rd and Airport Access Rd ³		Build	No	Yes	2010	
	B-M-P	Reconstruction of Exit 6 on I-293		Build	Yes	Yes	2025	2026
	B-M-P	Reconstruction of Exit 4 on I-293		Build	Yes	Yes	2025	2026
	B-M-P and CONAT	Reconstruct Exit 7 on FEE Turnpike to Become Full Interchange		Build	Yes	Yes	2016	
	B-M-P and CONAT	Construct 600 Space Park and Ride Structure	13512	Build	No	Off-Model	2016	
	B-M-P and CONAT	I-293 Lane Widening from I-93 Interchange to Merrimack River	12110	No-Build	Yes	Yes	2005	
	B-M-P and CONAT	Ramp Addition (NB On and SB Off) to I-293 at Granite St Interchange	10622	Build	Yes	Yes	2008	2009
	B-M-P and CONAT	Interchange reconstruction, replace bridge -134/066 and add ramps @ exit 5/ granite street (I-293/Fee Turnpike)	10622A	Build	Yes	Yes	2008	
MA	B-M-P and CONAT	Reconstruction of granite street interchange @ exit 5 (I-293/Fee Turnpike)	10622C	Build	Yes	Yes	2008	
	B-M-P and CONAT	Widen Granite St from Elm St up to South Main St	14025	Build	No	Yes	2008	
MA	B-M-P and CONAT	Widening from ELM street to Commercial Street- Granite Street	14025E	Build	No	Yes	2008	2009
	B-M-P and CONAT B-M-P and CONAT	Widening from commercial street to Merrimack river including bridge carrying granite street over the rive Relocate Airport Entrance On Brown Ave	14025F	Build	No V 4	Yes Yes	2008 2003	2009 2007
			00 04 CM	No-Build	Yes ⁴		2003	
MA MA	B-M-P and CONAT M and CONAT	Kiosks Widen Brown Ave to E. Lenga from Coffe Falls Bd up to Airport Bd and to 4	98-21CM	No-Build No-Build	No No	Off-Model Yes	2001	2007 2007
MA	INI and CONAT	Widen Brown Ave to 5 Lanes from Goffs Falls Rd up to Airport Rd and to 4 Lanes from Airport Rd up to Hazelton Ave ³		No-Bulla	NO	Yes	2005	2007
MA	B-M-P and CONAT	Develop a multiuse bike/ped trail between airport and Manchester downtowr	13873	Build	No	Off-Model	2006	2007
SA/MA	B-M-P and CONAT	I-93 Widening from Exit 2 Northerly to Exit 4 (NH 102)	10418A	Build	Yes	Yes	2011	2017
SA/MA	B-M-P and CONAT	I-93 Widening from Exit 4 to I-293 in Manchester	10418B	Build	Yes	Yes	2011	2017
SA-MA	B-M-P and CONAT	Construct Bus Terminal building at Exit 4 Park & ride (Londonderry)	10418M	No-Build	Yes	Off-Model	2006	
SA-MA	B-M-P and CONAT	Implementation of incident management and ITS Technologies for overall corridor, to improvε efficiency before, during & after I-93 construction	10418Z	Build	Yes	Off-Model	2007	2007
SA-DE	S	CART	+	Build	No	Off-Model	2007	2007
	B-M-P and CONAT	MTA Downtown Circulator	06-12CM	Build	Yes	Off-Model	2007	2007
	B-M-P	Optimization of traffic signal phasing and timing at 100 NHDOT maintained signalized intersections in four region:		Build	No	Off-Model	2009	
	B-M-P	Design and implementation of intelligent transportation systems technologies in the I-93 corrido	06-27CM	Build	Yes	Off-Model	2009	
	B-M-P	Electronic Toll Collection	JU-ZZCIVI	No-Build	No	Off-Model	2007	
DETITIO	D-181-1	Lieutionic Foil Conection		NO-Duila	INU	JII-IVIOUEI	2003	200

Source: Fy 2007-2016 Ten-Year Plan, SNHPC Regional Transportation Plan 2004

AU=Auburn, BE=Bedford, CA=Candia DE=Derry, GO=Goffstown, HO=Hooksett, LO=Londonderry, MA=Manchester, NB=New Boston, RA=Raymond, WE=Weare, SA=Salem
Area Designation: B-M-P=Boston-Manchester-Portsmouth (SE), NH Non-attainment Area S=Serious So. NH Non-Attainment Area, CONAT=CO Not Classified Non-Attainment Area
These projects are taken from various studies and are part of the Regional Transportation Plan

⁴ Suggested by the NH DOT

TABLE 3: ANALYSIS YEARS

Ozone Non-Attainment Area	Classification	Analysis Year
Base Year		2002
Auburn, Bedford, Candia,		2007
Chester, Goffstown,	Boston-Manchester-	2009
Hooksett, Manchester,	Portsmouth (SE), NH Non-Attainment	2017
Raymond		2026
		2007
Derry, Londonderry	Serious Southern NH	2009
Derry, Londonderry	Non-Attainment	2017
		2026
CO Non-Attainment Area	Classification	Analysis Year
		2007
Manchester	Not Classified	2010
		2026

Source: EPA Non-attainment Area Classifications

II-3 Build And No-Build Scenarios

For each of the above analysis years, Build and No-Build scenarios were established. If a project had a National Environmental Policy Act (NEPA) approval it was placed in the No-Build scenario. This includes projects that are complete and operational at the time of the analysis.

If a project did not fall into any of the above categories, then the project was placed in the Build scenario. Once a project was placed in the Build scenario, it continued to be in the Build scenario for all of the analysis years and was not placed in the No-Build scenario until one of the above conditions was met.

II-4 Analysis Methodology

In general, emission due to automobile travel on a highway link is determined by multiplying the amount of Vehicle Miles Traveled (VMT) on the link and an emission factor corresponding to the average travel speed of the automobiles on that link. Specifically the formula is as follows:

VMTs are estimated from the Travel Demand Model using TP+ travel demand modeling software. VMT is essentially the product of the link length and an estimation of daily travel on the link. Emission factors are developed by the New Hampshire Department of Environmental Services using the MOBILE6.2 model. In finding the average speed on a link (on a daily basis), it was observed that approximately 40 percent of the total traffic occurs during the congested periods of the day (7 A.M. to 9 A.M. and from 4 P.M. to 6 P.M.). As part of its output, the travel demand model also calculates the congested speed of the links which occurs during the rush (or congested) hours. Using this information, an average speed of any link is calculated using the weighted speeds during the congested and free flow conditions. Specifically this is calculated as follows:

The above calculations for each of the links in the *Travel Demand Model* provide emissions only on the coded links in the network. Trips on the coded links also use uncoded links, which produce emission that is not captured by the above calculations. In addition to these, there are *intrazonal*¹ *trips* which are estimated by the model but are not assigned. These trips also produce emission. An off-model adjustment was done to estimate the amount of emission generated by these two additional sources of trips. The methodology used is included in Appendix C. Emission factors are provided in Appendix D.

II-5 Special Generators

In order to consider the effect of sites that attract a large number of trips and whose trip production and attraction characteristics are not captured adequately by the trip generation equations, *special generators* were introduced in the Travel Demand Model. The following projects were considered for this purpose:

Mall of New Hampshire Expansion in Manchester: To represent the expansion of the Mall to double its original capacity, a gradual increase in trips over the years was assumed. Specifically 3000, 3342, 4200, 4200, 6400, and 7300 trips were added to 2000, 2002, 2007, 2009, 2017, and 2026 year scenarios. Also as part of the Mall Expansion, South Willow St. was widened from John E. Devine Dr. to Huse Rd. and the corresponding changes were included in the model's network.

<u>Manchester Airport</u>: The following trips were added to the Manchester airport traffic zone: for 2000, the addition of 13,318 trips, for 2002, the addition of 13,872 trips, for 2007, the addition of 16,038 trips, for 2009, the addition of 16,962 trips, for 2017, the addition of 21,218 trips, and for 2026, the addition of 26,944 trips.

<u>Walmart Distribution Center in Raymond</u>: A 1.2 million sq.ft. of Walmart Distribution Center located on the east side of NH Route 107, south of NH Route 101 in Raymond was represented by the addition of 1,470 daily trips to the affected traffic zone.

Retail Development at I-93 Exit 10 in Hooksett: This development includes a cluster of retail stores: a 126,200 sq.ft. Target Departmental store, a 123,700 sq.ft. Home Depot, a 114,800 sq.ft. BJ's Wholesale Club, a 86,584 sq.ft. Kohls' Departmental Store, a 78,716 sq.ft. Staples Home Office store, and a 6,000 sq.ft. restaurant. To represent the trip productions from this development site, the following trips were added to the affected traffic zone: 9,610 trips in 2007, 9610 trips in 2009, 19,220 trips in 2017, and 19,220 trips in 2026.

II-6 Credits for the Air Quality Analysis

Off-Model credits were taken for the following CMAQ projects. The emission reductions were obtained from the Air Quality analysis performed for each of these projects during the CMAQ application aprocess. The supporting documents are provided in Appendix F.

<u>Signal Coordination on US3/NH28 in Hooksett (Project# 12537)</u>: This project involves coordinating traffic signals along the heavily traveled US3/NH28 corridor in the Town of Hooksett, starting from the intersection of NH 28 Bypass to the intersection of Legends Drive/Lindsay Road. The completion year of this project is 2005. This project will reduce motor vehicle emissions as follows:

¹ Intrazonal trips are those trips that remain within the traffic analysis zone (TAZs)

Year	2007	2009	2017	2026
HC(kg/day)	1.00	0.83	0.37	0.36
NOx(kg/day)	0.36	0.31	0.11	0.08

Construct 600 Space Park And Ride Structure With Intermodel Transportation Center In Manchester (13512): This project involves constructing a 600 space park and ride structure with an intermodel transportation center and rail platform on a five acre site in Manchester. The structure will be used for carpool, vanpool, local and intercity bus and passenger rail modes. The air quality analysis shows that due to the elimination of single occupant vehicles, there will be a reduction of emissions as follows:

Year	2017	2026
HC(kg/day)	5.17	3.59
NOx(kg/day)	4.85	3.02

The total credits were proportionately divided among all the regional city and towns based on their share of VMTs.

<u>Londonderry NH 102 Signal Coordination Project (13116)</u>: This project involves synchronizing signal systems on NH 102 from I-93 exit 4 to NH 128. Credits were taken as follows:

Year	2007	2009	2017	2026
HC(kg/day)	1.04	0.85	0.42	0.37
NOx(kg/day)	0.35	0.30	0.12	0.1

Manchester Computerized Transportation Information System Project (98-21CM): This project invloves installing 5 kiosks at heavy pedestrian oriented sites. These kiosks provide information on commuting and recreational travel for the southern New Hampshire area. The kiosks also provide the public with information on alternate modes of transportation and its benefits. Air quality emission credits for this project were taken as follows:

Year	2002	2007	2009	2017	2026
HC(kg/day)	0.95	0.60	0.50	0.26	0.21
NOx(kg/day)	0.94	0.57	0.47	0.21	0.14

The total credits were proportionately divided among all the regional city and towns based on their share of VMTs.

<u>Londonderry Sidewalk (13872)</u>: This project involves installing sidewalks and multipurpose paths along Pillsbury Road and NH 128 in the Town of Londonderry. Emission credits were taken as follows:

Year	2007	2009	2017	2026
HC(kg/day)	0.04	0.03	0.01	0.01
NOx(kg/day)	0.03	0.03	0.01	0.01

South Manchester Rail Trail (13873): This project involves development of a multi-use bikeway/pedestrian trail that serves as a north-south connector between Manchester Airport to the south and the downtown Manchester to the north. The 3.3-mile corridor will connect with the Riverwalk and to the Piscataquog Trail heading west from Manchester to Goffstown. Emission credits were taken as follows:

Year	2007	2009	2017	2026
HC(kg/day)	0.52	0.42	0.20	0.14
NOx(kg/day)	0.50	0.40	0.16	0.10

<u>Electronic Toll Collection System</u>: This project involves conversion of all the existing toll collection system in the state to Electronic EZ-Pass system. In this system, motorists carry an electronic transponder in their vehicles that communicates with receivers at toll plazas. Toll amounts are deducted electronically from the motorist's EZ-Pass account. The toll collection process is automated and motorists do not have to stop to pay tolls, resulting in improved air quality.

<u>I-93 ITS CMAQ project:</u> The main goal of an Incident Management Program is to reduce congestion by minimizing the impacts of traffic incidents. Because the I-93 ITS project reduces delays resulting from traffic incidents, emissions are reduced. Credits are taken as follows.

Year	2007	2009	2017	2026
HC(kg/day)	37.58	31.90	17.93	13.8
NOx(kg/day)	99.13	81.19	32.89	17.57

The total credits were summaried credits from Hooksett, Londonderry and Manchester.

RESULTS OF AIR QUALITY ANALYSIS



A summary of the final results of the Vehicle Miles Traveled (VMT), and emission analyses are shown in Table 4. Table 4a shows the emission results for the Southern NH Serious non-attainment area that includes the Towns of Derry and Londonderry. Table 4b shows the same for the Boston-Manchester-Portsmouth (SE), NH Non-attainment Area. The VMT and emission values in this report reflect a 15 percent (provided by the New Hampshire Department of Transportation) increase above the daily average to represent the peak summer months.

In general, although there is an increase in VMT over the years, the emissions decrease due to cleaner vehicles and other actions taken by the State to reduce emissions. Tables 5a-5e show detailed results of VMT and emission analysis along with credits taken for the eligible projects. These credits are described in the previous section.

A CO analysis for the City of Manchester for winter months is shown in Table 6. The VMTs from the model are reduced by 9 percent to reflect the decrease in VMT during the winter months from the daily averages.

The relevant tests for conformity will be performed by the NHDOT/NHDES once air quality analysis results from the entire non-attainment area are available.

Table 4a Portion of SNHPC Region in the Southern NH Serious Non-Attainment Area

Year	Scenario	Daily VMT	VOC(Kg/day)	NOX(kg/day)
2002	Base	1,811,934	2,042	3,825
2007	No Build	1,952,172	1,311	2,478
	Build	1,952,099	1,298	2,446
	% Change	0.00	-0.93	-1.30
2009	No Build	2,024,911	1,121	2,065
	Build	2,024,338	1,111	2,038
	% Change	-0.03	-0.96	-1.31
2017	No Build	2,240,403	631	869
	Build	2,252,530	628	867
	% Change	0.54	-0.6	-0.20
2026	No Build	2,511,977	507	492
	Build	2,531,148	505	496
	% Change	0.76	-0.42	0.80

Source: SNHPC Air Quality Analysis, July 2006

Table 4b Boston-Manchester-Portsmouth (SE), NH Non-attainment Area

Year	Scenario	Daily VMT	VOC(Kgs/day)	NOX(kgs/day)
2002 Base	Base	5,768,311	6,551	11,743
2007	No Build	6,239,457	4,212	7,566
	Build	6,236,510	4,189	7,498
	% Change	-0.05	-0.56	-0.90
2009	No Build	6,471,720	3,601	6,296
	Build	6,474,311	3,580	6,242
	% Change	0.04	-0.58	-0.9
2017	No Build	7,146,445	2,018	2,657
	Build	7,047,719	1,972	2,613
	% Change	-1.38	-2.27	-1.63
2026	No Build	7,965,038	1,608	1,519
	Build	7,869,722	1,572	1,496
	% Change	-1.20	-2.20	-1.55

Source: SNHPC Air Quality Analysis, JULY 2006

Boston-Manchester-Portsmouth (SE), NH Non-attainment Area: Not including Londonderry and Derry

Table 5a 2002 Ozone Analysis Summary

2002 N0-BUII	LD RESULTS		
		EMISSION ((kg/day)
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	1,811,934	2,042	3,825
B-M-P (SE), NH Non-attainment Area	5,768,311	6,551	11,743
TOTAL	7,580,245	8,593	15,567

Source: SNHPC Air Quality Analysis, July 2006

B-M-P (SE), NH Non-attainment Area:Boston-Manchester-Portsmouth (SE), NH Non-attainment Area Boston-Manchester-Portsmouth (SE), NH Non-attainment Area: Not including Londonderry and Derry Total: Including all Non-attainment area

Table 5b 2007 Ozone Analysis Summary

ON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	195	0.13	0.13
B-M-P (SE), NH Non-attainment Area	624	0.43	0.40
TOTAL	819	0.56	0.54
-			
Londonderry NH 10	2 Signal Coo	ordination	
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	0	1.05	0.35
B-M-P (SE), NH Non-attainment Area	0	0.00	0.00
TOTAL	0	1.05	0.35
Hooksett US 3/NH 2	8 Signal Cod	ordination	
	· J · · · · · · · ·		
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	0	0.00	0.00
B-M-P (SE), NH Non-attainment Area	0	1.00	0.36
TOTAL	0	1.00	0.36
Londonderry Pillsbury	/Mammoth i	Rd Sidewalk	
, ,			
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	53	0.036	0.035
B-M-P (SE), NH Non-attainment Area	53	0.000	0.000
IOTAL	55	0.030	0.033
South Manch	nester Rail Tr	ail	
NON ATTAINMENT ADEA	VAAT	110	NOV
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part)	VMT 0	HC 0.00	NOX 0.00
B-M-P (SE), NH Non-attainment Area	760	0.52	0.50
TOTAL	760	0.52	0.50
1-93 11	S CMAQ		
	VMT	HC	NOX
SOUTHERN NH Serious (Part)	0	12.168	32.097
SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area	0	12.168 25.411	32.097 67.031
SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area	0	12.168	32.097
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area TOTAL Tota	0	12.168 25.411	32.097 67.031
SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area TOTAL Tota	0 0 0	12.168 25.411 37.579	32.097 67.031 99.128
SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area TOTAL Tota NON-ATTAINMENT AREA	0 0 0	12.168 25.411 37.579	32.097 67.037 99.128
SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area TOTAL Tota	0 0 0	12.168 25.411 37.579	32.097 67.037 99.128

2007 NO-BUILD RESULTS				
		EMISSIOI	N (kg/day)	
NON-ATTAINMENT AREA VMT		HC	NOX	
SOUTHERN NH Serious (Part)	1,952,172	1,311	2,478	
B-M-P (SE), NH Non-attainment Area	6,239,457	4,212	7,566	
TOTAL	8,191,629	5,523	10,044	

2007 BUILD RESULTS w/out CREDIT			
		EMISSION (kg/day)	
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	1,952,348	1,312	2,478
B-M-P (SE), NH Non-attainment Area	6,237,893	4,216	7,566
TOTAL	8,190,241	5,528	10,044

2007 BUILD RESULTS with CREDIT				
		EMISSIOI	V (kg/day)	
NON-ATTAINMENT AREA	VMT	HC	NOX	
SOUTHERN NH Serious (Part)	1,952,099	1,298	2,446	
B-M-P (SE), NH Non-attainment Area	6,236,510	4,189	7,498	
TOTAL	8,188,609	5,487	9,943	

B-M-P (SE), NH Non-attainment Area:Boston-Manchester-Portsmouth (SE), NH Non-attainment Area Boston-Manchester-Portsmouth (SE), NH Non-attainment Area: Not including Londonderry and Derry

Total: Including all Non-attainment area

Table 5c 2009 Ozone Analysis Summary

ION-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	202	0.11	0.11
B-M-P (SE), NH Non-attainment Area	648	0.36	0.34
TOTAL	850	0.48	0.45
Londonderry NH 102	2 Signal Coc	ordination	
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	0	0.85	0.30
B-M-P (SE), NH Non-attainment Area	0	0.00	0.00
TOTAL	0	0.85	0.30
Hooksett US 3/NH 2	8 Signal Cod	ordination	
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	0	0.00	0.00
B-M-P (SE), NH Non-attainment Area	0	0.83	0.31
TOTAL	0	0.83	0.31
Londonderry Pilisbury/	'Mammoth I	Rd Sidewalk	
NON-ATTAINMENT AREA	VMT	НС	NOX
SOUTHERN NH Serious (Part)	53	0.030	0.028
3-M-P (SE), NH Non-attainment Area	0	0.000	0.020
TOTAL	53	0.030	0.028
•			
South Manch	ester Rail Tr	ail	
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	0	0.00	0.00
B-M-P (SE), NH Non-attainment Area	760	0.42	0.40
TOTAL	760	0.42	0.40
I-93 IT:	S CMAQ		
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	0	10.330	26.289
B-M-P (SE), NH Non-attainment Area	0	21.573	54.901
TOTAL	0	31.903	81.189
		01.700	31.10
Total	Credit		
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	255	11.33	26.73
B-M-P (SE), NH Non-attainment Area	1408	23.19	55.94

2009 NO-	BUILD RESUL	.TS	
		EMISSIO	N (kg/day)
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	2,024,911	1,121	2,065
Boston-Manchester-Portsmouth (SE),	6,471,720	3,601	6,296
TOTAL	8,496,632	4,722	8,361

2009 BUILD RESULTS w/out CREDIT				
		EMISSIOI	N (kg/day)	
NON-ATTAINMENT AREA	VMT	HC	NOX	
SOUTHERN NH Serious (Part)	2,024,594	1,122	2,065	
B-M-P (SE), NH Non-attainment Area	6,475,718	3,603	6,298	
TOTAL	8,500,312	4,725	8,363	

2009 BUILD RESULTS with CREDIT				
		EMISSIOI	V (kg/day)	
NON-ATTAINMENT AREA	VMT	HC	NOX	
SOUTHERN NH Serious (Part)	2,024,338	1,111	2,038	
B-M-P (SE), NH Non-attainment Area	6,474,311	3,580	6,242	
TOTAL	8,498,649	4,691	8,280	

B-M-P (SE), NH Non-attainment Area:Boston-Manchester-Portsmouth (SE), NH Non-attainment Area Boston-Manchester-Portsmouth (SE), NH Non-attainment Area: Not including Londonderry and Derry Total: Including all Non-attainment area

Table 5d 2017 Ozone Analysis Summary

Manchester CTI	S Kiosk Redi	uction	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day)
SOUTHERN NH Serious (Part)	226	0.06	0.05
B-M-P (SE), NH Non-attainment Area	706	0.19	0.15
TOTAL	932	0.25	0.20
Londonderry NH 10	2 Signal Co	ordination	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day)
SOUTHERN NH Serious (Part)	0	0.42	0.12
B-M-P (SE), NH Non-attainment Area	0	0.00	0.00
TOTAL	0	0.42	0.12
Hooksett US 3/NH 2	8 Signal Co	ordination	
Hooksett 03 3/1411 2	o signal co	Jidillation	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day
SOUTHERN NH Serious (Part)	0	0.00	0.00
B-M-P (SE), NH Non-attainment Area	0	0.37	0.11
TOTAL	0	0.37	0.11
Manushan (OOO	o Doule O Di-	la Câm rate ma	
Manchester 600 Spac	e Park & Ric	e structure	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day)
SOUTHERN NH Serious (Part)	4921	1.18	1.11
B-M-P (SE), NH Non-attainment Area	15398	3.68	3.46
TOTAL	20319	4.86	4.56
Londonderry Pillsbury			NOV/I/-I
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part)	VMT 53	0.014	NOX(kg/day) 0.011
B-M-P (SE), NH Non-attainment Area	0	0.000	0.000
TOTAL	53	0.014	0.011
· •			
South Manci	nester Rail T	rail	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day)
SOUTHERN NH Serious (Part)	0	0.000	0.000
B-M-P (SE), NH Non-attainment Area	760	0.200	0.159
TOTAL	760	0.200	0.159
1-9311	S CMAQ		
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day)
SOUTHERN NH Serious (Part)	0	5.805	10.650
B-M-P (SE), NH Non-attainment Area	0	12.123	22.241
TOTAL	0	17.928	32.891
Tota	l Credit		
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day
SOUTHERN NH Serious (Part)	5200	7.47	11.93
B-M-P (SE), NH Non-attainment Area	16865	16.57	26.12
TOTAL	22064	24.04	38.05

2017 NO-BUILD RESULTS				
		EMISSIOI	N (kg/day)	
NON-ATTAINMENT AREA	HC	NOX		
SOUTHERN NH Serious (Part)	2,240,403	631	869	
B-M-P (SE), NH Non-attainment Area	7,146,445	2,018	2,657	
TOTAL	9,386,847	2,649	3,525	

2017 BUILD RESULTS w/out CREDIT			
		EMISSIOI	N (kg/day)
NON-ATTAINMENT AREA	N-ATTAINMENT AREA VMT		
SOUTHERN NH Serious (Part)	2,257,729	635	879
B-M-P (SE), NH Non-attainment Area	7,064,583	1,988	2,639
TOTAL	9,322,313	2,623	3,518

2017 BUILD RESULTS with CREDIT				
		EMISSIOI	N (kg/day)	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day)	
SOUTHERN NH Serious (Part)	2,252,530	628	867	
B-M-P (SE), NH Non-attainment Area	7,047,719	1,972	2,613	
TOTAL	9,300,248	2,599	3,480	

B-M-P (SE), NH Non-attainment Area:Boston-Manchester-Portsmouth (SE), NH Non-attainment Area Boston-Manchester-Portsmouth (SE), NH Non-attainment Area: Not including Londonderry and Derry

Total: Including all Non-attainment area

Source: SNHPC Air Quality Analysis, JULY 2006

2026 Ozone Analysis Summary Table 5e

ION-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/da
OUTHERN NH Serious (Part)	254	0.05	0.03
-M-P (SE), NH Non-attainment Area	789	0.15	0.10
OTAL	1042	0.20	0.14
Londonderry NH 10	2 Signal Co	ordination	
ON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day
OUTHERN NH Serious (Part)	0	0.37	0.10
3-M-P (SE), NH Non-attainment Area	0	0.00	0.00
OTAL	0	0.37	0.10
Hooksett US 3/NH 2	8 Signal Co	ordination	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day
SOUTHERN NH Serious (Part)	0	0.00	0.00
B-M-P (SE), NH Non-attainment Area	0	0.36	0.08
TOTAL	0	0.36	0.08
Manchester 600 Spac	e Park & Die	le Structure	
	erark & KIC	io otractare	
NON-ATTAINMENT AREA	VMT		NOX(kg/day
SOUTHERN NH Serious (Part)	4934	0.82	0.69
3-M-P (SE), NH Non-attainment Area	15343 20277	2.55 3.37	2.14 2.83
IOTAL	20211	3.37	2.03
Londonderry Pillsbury	/Mammoth	Rd Sidewalk	
NON-ATTAINMENT AREA	/Mammoth VMT		NOX(kg/day
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part)	VMT 53	HC(kg/day) 0.010	0.007
NON-ATTAINMENT AREA COUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area	VMT 53	HC(kg/day) 0.010 0.000	0.007 0.000
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area	VMT 53	HC(kg/day) 0.010	0.007
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) B-M-P (SE), NH Non-attainment Area	VMT 53 0 53	HC(kg/day) 0.010 0.000 0.010	0.007 0.000
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch	VMT 53 0 53	HC(kg/day) 0.010 0.000 0.010	0.007 0.000
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manck NON-ATTAINMENT AREA SOUTHERN NH Serious (Part)	VMT 53 0 53 nester Rail T	HC(kg/day) 0.010 0.000 0.010 rall HC(kg/day) 0.000	0.007 0.000 0.007 NOX(kg/day
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area	VMT 53 0 53 mester Rall T VMT 0 760	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143	0.007 0.000 0.007 NOX(kg/da 0.000 0.098
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area	VMT 53 0 53 nester Rail T	HC(kg/day) 0.010 0.000 0.010 rall HC(kg/day) 0.000	0.007 0.000 0.007 NOX(kg/day
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area TOTAL South Manch NON-ATTAINMENT AREA 3-M-P (SE), NH Non-attainment Area TOTAL	VMT 53 0 53 mester Rall T VMT 0 760	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143	0.007 0.000 0.007 NOX(kg/da 0.000 0.098
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL 1-93 IT	VMT 53 0 53	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143 0.143	0.007 0.000 0.007 NOX(kg/da 0.000 0.098
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL 1-93 IT NON-ATTAINMENT AREA SOUTHERN NH Serious (Part)	VMT 53 0 53 nester Rall T VMT 0 760 760 VMT 0 VMT 0	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143 0.143 HC(kg/day) 4.469	0.007 0.000 0.007 NOX(kg/da) 0.000 0.098 0.098 NOX(kg/da) 5.690
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL 1-93 IT NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area	VMT 53 0 53 nester Rail T VMT 0 760 760 VMT 0 0 0 0	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143 0.143 HC(kg/day) 4.469 9.332	0.007 0.000 0.007 NOX(kg/da) 0.000 0.098 0.098 0.098 NOX(kg/da) 5.690 11.882
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manck NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL 1-93 IT NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area	VMT 53 0 53 nester Rall T VMT 0 760 760 VMT 0 VMT 0	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143 0.143 HC(kg/day) 4.469	0.007 0.000 0.007 NOX(kg/da) 0.000 0.098 0.098 NOX(kg/da) 5.690
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA GOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL NON-ATTAINMENT AREA GOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL TOTAL NON-ATTAINMENT AREA GOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL	VMT 53 0 53 nester Rail T VMT 0 760 760 VMT 0 0 0 0	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143 0.143 HC(kg/day) 4.469 9.332	0.007 0.000 0.007 NOX(kg/da) 0.000 0.098 0.098 0.098 NOX(kg/da) 5.690 11.882
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL 1-93 IT NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL Tota	VMT	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143 0.143 HC(kg/day) 4.469 9.332 13.801	0.007 0.000 0.007 NOX(kg/da) 0.000 0.098 0.098 0.098 NOX(kg/da) 5.690 11.882 17.572
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL Tota NON-ATTAINMENT AREA FOTAL Tota	VMT	HC(kg/day) 0.010 0.000 0.010 Tall HC(kg/day) 0.000 0.143 0.143 HC(kg/day) 4.469 9.332 13.801 HC(kg/day)	0.007 0.000 0.007 NOX(kg/da) 0.000 0.098 0.098 0.098 NOX(kg/da) 5.690 11.882 17.572
NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL South Manch NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL NON-ATTAINMENT AREA SOUTHERN NH Serious (Part) 3-M-P (SE), NH Non-attainment Area FOTAL	VMT	HC(kg/day) 0.010 0.000 0.010 Trall HC(kg/day) 0.000 0.143 0.143 HC(kg/day) 4.469 9.332 13.801	0.007 0.000 0.007 NOX(kg/da) 0.000 0.098 0.098 0.098 NOX(kg/da) 5.690 11.882 17.572

2026 NO-BUILD RESULTS			
		EMISSION (kg/day)	
NON-ATTAINMENT AREA	VMT	HC	NOX
SOUTHERN NH Serious (Part)	2,511,977	507	492
B-M-P (SE), NH Non-attainment Area	7,965,038	1,608	1,519
TOTAL	10,477,015	2,115	2,011

2026 BUILD RESULTS w/out CREDIT				
		EMISSIO	EMISSION (kg/day)	
NON-ATTAINMENT AREA	VMT	HC	NOX	
SOUTHERN NH Serious (Part)	2,536,389	511	503	
B-M-P (SE), NH Non-attainment Area	7,886,614	1,585	1,510	
TOTAL	10,423,003	2,096	2,013	

2026 BUILD RESULTS with CREDIT			
		EMISSION (kg/day)	
NON-ATTAINMENT AREA	VMT	HC(kg/day)	NOX(kg/day)
SOUTHERN NH Serious (Part)	2,531,148	505	496
B-M-P (SE), NH Non-attainment Area	7,869,722	1,572	1,496
TOTAL	10,400,870	2,078	1,992

B-M-P (SE), NH Non-attainment Area:Boston-Manchester-Portsmouth (SE), NH Non-attainment Area Boston-Manchester-Portsmouth (SE), NH Non-attainment Area: Not including Londonderry and Derry Total: Including all Non-attainment area

TABLE 6 CO ANALYSIS RESULT FOR MANCHESTER

Year	Scenario	VMT	CO (kg/day)	CO Budget (kg/day)
2010	No-Build	2,182,943	30,121	55,830
	Build	2,107,086	29,032	55,830
2017	No-Build	2,350,847	25,449	55,830
	Build	2,295,002	24,969	55,830
2026	No-Build	2,557,555	25,132	55,830
	Build	2,517,894	24,871	55,830

Source: SNHPC Air Quality Analysis, July 2006

A Winter time adjustment factor of 0.91 is used as instructed by the NHDOT No credits were taken for any projects, as the emission values are well under budge

EXHIBITS

Exhibit A	Brief Description of Some Exempt Projects
Exhibit B	Brief Description of Some Not-Exempt
Exhibit C	Off-Model Adjustment Method to Emission Calculation
Exhibit D	Emission Factors
Exhibit E	Exempt Codes
Exhibit F	Off-Model Credit Documents

EXHIBIT A BRIEF DESCRIPTION OF SOME EXEMPT PROJECTS

Intersection Improvement at NH 102 and NH 28 (Derry)

This project involves modifying intersection geometry to relieve congestion and improve safety in the area. Turning lanes will be added on NH 102 and NH 28.

Operating Assistance for Fixed Route and Para-transit System (Manchester MTA)

This is an annual operating assistance to the Manchester Transit Authority in the amount of \$2.27 million, \$2.361 million, and \$2.456 million for 2007, 2008, and 2009 respectively.

Capital Assistance for Preventive Maintenance of MTA Fleet (Manchester MTA)

This project involves purchasing equipments and services for preventive maintenance of MTA fleet. Funding for this project is as follows: \$312,000 for FY 2007, \$324,000 for FY 2008, and \$337,000 for FY 2009.



EXHIBIT B BRIEF DESCRIPTION OF SOME NOT-EXEMPT AND CODED PROJECTS

Airport Access Road (Bedford/Manchester/Londonderry) Project # 11512

A four-lane highway will be constructed connecting F.E. Everett Turnpike to the Manchester Airport through relocated South Perimeter Rd. Grade separated interchanges at US 3 and Brown Ave will facilitate better access for these heavily traveled roadways to the airport and to the industrial park in the area. This project is expected to allow better access to the rapidly expanding Manchester airport and relieve congestion on Brown Ave, which is the major existing access point to the airport.

• Construction of Exit 4A on I-93 (Derry/Londonderry)

This study is still in progress and a final alignment for Exit 4A is yet to be determined. This exit would be built between existing Exits 4 and 5 on I-93 and a new roadway will connect this exit with Folsom Rd in the Town of Derry. Folsom Road and Tsienneto Road will be improved as part of this project. This project would relieve congestion on NH102 in the Town of Derry. This project will also help in opening up some industrially zoned lands in Londonderry that are expected to contribute to the economic base for the Town of Londonderry.

• Widen NH 102 to Four Lanes from Hudson Town Line to NH 128 (Londonderry)

This project involves widening of NH 102 from two to four lanes between the Hudson town line and NH 128 and intersection improvements along the corridor. As per the 2004 update of the NH 102 Corridor study for the Town of Londonderry, the corridor needs to be widened to either 6 lanes or 4 lanes by 2025 from the existing 2 lanes.

• Widen NH 102 from I-93 east to Londonderry Road (Londonderry)

Widening of NH 102 corridor between I-93 and Londonderry Road from two to four-lanes with a center turn lane will be part of Exit 4A project.

• Widen NH 102 to 6 lanes from Buttrick Rd to NH 128 (Londonderry)

The existing two-lane highway will be upgraded to a six-lane (three in each direction) highway between Buttrick Rd and NH 128. This will increase the capacity and traffic flow efficiency of the corridor. This is one of the main recommendations of the NH 102 Central Corridor Study for the Town of Londonderry.

Coordinate Traffic Signals on NH 102 from I-93 to NH 128 (Londonderry) Project # 13116

This project will involve installation of a coordinated traffic signal system along NH 102 corridor from I-93 interchange (Exit 4) westerly to the NH Route 128 intersection in Londonderry. This project is expected to improve traffic flow on NH Route 102 at intersections with I-93 NB/SB ramps, the Londonderry carpool lot, Gilcrest Rd, Appletree Mall, and NH Route 128.

• I-293 Lane Widening from I-93 interchange to Merrimack River (Manchester) Project # 12110

This 2.6-mile section of the freeway carries a very high traffic volume all year long. As such, it suffers rather considerable amount of wear and tear. Rehabilitation of this section will involve paving and fixing of minor cracks and fills etc to the existing pavement. Due to the

modification of the Airport Access Road layout, it is now necessary to add capacity to this section of the freeway and as such an additional lane in each direction will be added.

Ramp Addition (NB On and SB Off) to I-293 at Granite St Interchange (Manchester) Project # 10622

This project undertakes the construction of a northbound on-ramp and a southbound off-ramp on I-293 at Granite St to provide better access to the Manchester CBD.

• Widen Granite Street from Elm Street to South Main Street (Manchester)

Upgrading Granite Street interchange on I-293 to a full interchange will increase traffic on Granite Street. Also, due to the new Civic Center on Elm Street and Granite Street intersection, traffic has increased on Granite Street. Due to all these factors, Granite Street is proposed to be widened from four lanes to six lanes throughout most of the length of Granite Street. On the bridge, it will be widened to seven lanes.

• Relocate Airport Entrance on Brown Ave (Manchester)

The existing Airport Road (airport entrance) will be reconfigured for a smoother flow of traffic into and out of the airport and for a seamless merge with the proposed airport access road.

<u>Computerized Transportation Information System (CTIS) in the SNHPC Region (Manchester)</u> Project # 98-21CM

This project involves setting up a Computerized Transportation Information System (CTIS) throughout SNHPC region. The system consists of Kiosks located at strategic points that people can use to perform ridesharing match either for daily commuting or for single trips. In addition to the above capabilities, the Kiosks provide information on transit schedules and fares, airport and airline schedules, inter-city bus, roadway construction projects, and real time traffic incidents. The ride matching program is expected to help in reducing Single Occupant Vehicles (SOV) on highways.

I-93 Widening from Exit 2 Northerly to Exit 4 (Salem/Manchester) (Project # 10418A)

Interstate 93 South of Exit 4 near the Derry/Windham town line is a four-lane facility that experiences severe congestion during the peak commute periods and during holidays when tourists are traveling to the northern areas of the state for recreation. In order to relieve existing congestion and accommodate future demands, this facility will be upgraded to an eight-lane facility.

I-93 Widening from Exit 4 to I-293 in Manchester (Salem/Manchester) (Project # 10418B)

For similar reasons portrayed for its conjugate project (# 10418A), the existing four-lane facility will be upgraded to eight-lanes upon completion of this project.

• Construct 600 Space Park and Ride Structure in Manchester (Manchester) (Project #13512)

This project will involve constructing a 600 space park and ride structure with an inter-modal transportation center and rail platform on a five-acre site in Manchester. This facility will be used for carpool/vanpool, local and inter-city bus and passenger rail modes.

EXHIBIT C OFF-MODEL ADJUSTMENTS TO EMISSION CALCULATION

There are two major sources of VMTs: Interzonal Trip VMT

Intrazonal Trip VMT

Interzonal Trip VMT further has two sources : Coded Link VMT

Uncoded Link VMT

Combining the above we have these VMT sources : Interzonal Coded Link VMT

Interzonal Uncoded Link VMT

Intrazonal Trip VMT

In doing conformity analysis, we calculate emissions from all these three sources.

1) Interzonal Coded Emissions:

For each link in the network,

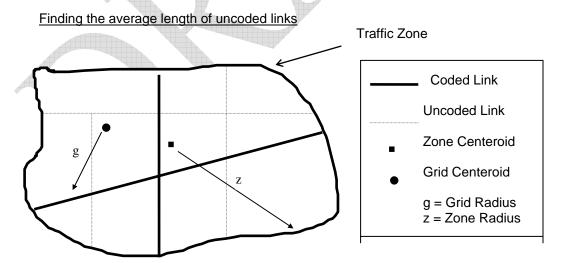
Emission (kg/day) = Emission Factor (corresponding to average link speed in gm/mile) x VMT 1000

where.

Average Link Speed = 0.60 x Free-flow Speed (mph) + 0.40 x Congested Speed (mph) VMT = Total volume on a link x Link distance (miles)

These equations are included in the emission calculation model, which provides VMTs, and emission for each of the links coded in the network. These values are then summed for all the coded links.

2) Interzonal Uncoded Emissions



The above figure shows a traffic zone with coded and uncoded roads. Let's assume that the average length of uncoded road is the average radius of all the grids formed by the coded links.

So we can say, $\pi(g)^2 x$ (No of grids in the TZ) = Area of the TZ

From the above equation we can find the average length of uncoded road, $g = [(Area of the TZ)/\{(No. of grids in the TZ) \times (\pi)\}]^{(1/2)}$

Finding Interzonal Trips

The INs, OUTs, and INTRAs are calculated using the MATRIX module after the trips are balanced in the TP+. The TOTAL column in this module is the sum of INS and OUTS (not INTRAS, because INS and OUTS have INTRAS included in them). So to find the Interzonal trips, INTRAS are subtracted from the TOTAL column.

Finding Interzonal Uncoded VMT

So, from the above two steps we have average uncoded link length and interzonal trips for each traffic zone. Now to find the VMT, we multiply interzonal trip and average uncoded link length:

Interzonal Uncoded VMT (for each TZ) = Interzonal Trip in the TZ x Average Uncoded Link Length of the TZ

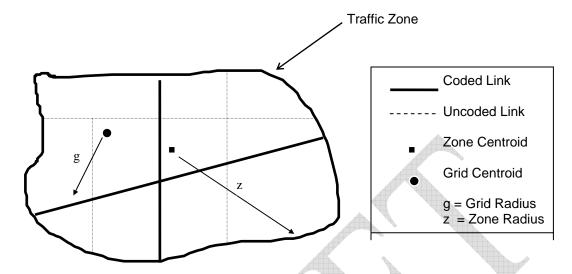
This is done for each traffic zone and the results are summed up to get the region wide VMT value.

Finding Interzonal Uncoded Emissions

Interzonal Uncoded Link Trip Emission for a TZ = Interzonal Uncoded VMT for that TZ x Emission Factor

Now the question is, what emission factor to use, because emission factor depends on the average speed on the link. Since these are uncoded links, there is no information available on its speed. So, an average speed of 25 mph on these roads are assumed and the corresponding emission factor is selected for use in the emission calculation.

2) Intrazonal Emissions



Finding the average length of travel for intrazonal trips

It is assumed that the average length of travel for intrazonal trips is the average radius of the traffic zone.

So, If z is the average radius of the TZ, $\pi(z)^2$ = Area of TZ

Therefore, average length of travel, $z = \{(Area \text{ of } TZ)/(\pi)\}^{1/2}$

Finding Intrazonal Trips

As mentioned earlier INS,OUTS, and INTRAS for each traffic zone are calcultade in TP+ using the MATRIX module after trip balacing. The "INTRAS" are intrazonal trips.

Finding Intrazonal Trips VMT

Intrazonal Trip VMT (for any TZ)

= Intrazonal Trip for the TZ x Average Length of Travel for Intrazonal Trips in the TZ

Finding Intrazonal Trip Emissions

Intrazonal Trip Emission for a TZ

= Interzonal Trip VMT for that TZ x Emission Factor

For this case we assume an average speed of 30 mph and use the corresponding emission factor. All VMTs and emissions are summed to find the values for the entire region.

Example: Following is an example for a traffic zone taken from the study area:

Zone	Ins	Outs	Intra s (a)	Total (b)	Zone Radius (Mile) (c)	Grid Radius (Mile) (d)	Uncoded Link VMT (b-a)xd	Intrazonal VMT axc
1	11,498	11,498	2,460	22,997	0.79	0.32	6,571	1,943

Emission Calculation: Uncoded Links

The emission factors for HC and NOx at 25 mph speed are 1.272 and 2.013 (gm/mile) for freeways and 1.273 and 1.911 for arterials respectively for the year 2002 for which the above values were obtained. Hence, the HC emission on uncoded links = 6571 x 1.273 = 8,364 gm/day = 8.36 kg/day. Similar calculations yield 12.55 kg/day for NOx emission. In both of these calculations, the arterial factors used as freeways are always coded.

Intarzonal Trips

Emission factors for HC and NOx at 30 mph speed are 1.207 and 1.990 for freeways, and 1.199 and 1.843 (gm/mile) for arterials respectively for the year 2002. HC emission due to the intrazonal trips = 1943 x 1.199 = 2,329 gm/day = 2.33 kg/day. Similarly, the NOx emission is 3.58 kg/day. Arterial factors are used for similar reasons stated for uncoded link emission calculations.

EXHIBIT D MOBILE 6.2 Emission Factors for All Type Vehicle

				OBILE 6	.2	Emission		for All Ty	pe venic	ie	2000	\(\(\)	
	Eroc	2002(oriol		Eroo	2007(riol	Er		(gr/mi)	rial
Spood	VOC	NOx	VOC	erial Nox		VOC	,	Arte VOC	NOx	VOC	eeway NOx	VOC	NOx
Speed 2.5	VUC	NOX	8.053	3.524		VUC	Nox	5.197	2.156	VOC	NOX	4.142	1.735
3	6.641	3.477	6.485	3.386		4.255	2.083	4.142	2.130	3.39	95 1.669		1.667
4	4.682	3.305	4.525	3.214		2.935	1.977	2.822	1.965	2.35			1.582
5	3.506	3.202	3.349	3.111		2.144	1.914	2.022	1.903	1.72			1.531
6	2.900	3.026	2.888	2.932		1.751	1.805	1.744	1.789	1.4			1.440
7	2.556	2.848	2.558	2.804		1.538	1.694	1.539	1.709	1.24			1.375
8	2.297	2.714	2.311	2.708		1.378	1.611	1.385	1.649	1.11			1.327
9	2.097	2.610	2.119	2.634		1.254	1.546	1.266	1.602	1.0			1.289
10	1.936	2.527	1.965	2.574		1.155	1.494	1.170	1.565	0.93			1.259
11	1.813	2.445	1.861	2.482		1.080	1.443	1.108	1.506	0.87			1.211
12	1.723	2.357	1.774	2.405		1.027	1.387	1.057	1.458	0.83			1.172
13	1.647	2.283	1.700	2.340		0.982	1.340	1.013	1.416	0.79			1.139
14	1.582	2.219	1.637	2.285		0.943	1.300	0.976	1.381	0.76			1.110
15	1.525	2.164	1.582	2.237		0.910	1.265	0.943	1.351	0.74			1.086
16	1.478	2.124	1.530	2.189		0.881	1.240	0.912	1.320	0.7			1.061
17	1.441	2.110	1.484	2.148		0.859	1.230	0.885	1.294	0.70			1.040
18	1.408	2.097	1.443	2.111		0.839	1.221	0.860	1.270	0.68			1.021
19	1.378	2.086	1.407	2.078	Г	0.821	1.213	0.839	1.249	0.67			1.004
20	1.351	2.075	1.374	2.048		0.805	1.206	0.819	1.230	0.65			0.988
21	1.328	2.066	1.346	2.021		0.790	1.199	0.802	1.212	0.64			0.974
22	1.307	2.057	1.320	1.996		0.778	1.193	0.787	1.197	0.63			0.961
23	1.289	2.048	1.297	1.973		0.767	1.187	0.773	1.182	0.62			0.950
24	1.272	2.041	1.276	1.952		0.757	1.182	0.761	1.169	0.6			0.939
25	1.256	2.034	1.256	1.933		0.747	1.177	0.749	1.156	0.6	0.938	0.614	0.929
26	1.242	2.028	1.239	1.917		0.738	1.173	0.739	1.146	0.60	0.935	0.606	0.921
27	1.228	2.023	1.223	1.902		0.730	1.170	0.729	1.137	0.59	0.932	0.598	0.913
28	1.215	2.019	1.209	1.888		0.722	1.167	0.720	1.128	0.59	0.930	0.591	0.906
29	1.203	2.015	1.195	1.875		0.715	1.164	0.712	1.120	0.58	36 0.928	0.585	0.900
30	1.192	2.011	1.182	1.863		0.708	1.162	0.705	1.113	0.58	0.926	0.579	0.894
31	1.180	2.008	1.169	1.858		0.701	1.160	0.697	1.109	0.57	75 0.925	0.573	0.891
32	1.167	2.007	1.156	1.852		0.694	1.159	0.690	1.106	0.57	70 0.924	0.567	0.888
33	1.156	2.005	1.144	1.847		0.687	1.158	0.683	1.103	0.56			0.886
34	1.145	2.003	1.133	1.842		0.681	1.157	0.677	1.100	0.56			0.884
35	1.135	2.002	1.122	1.838		0.676	1.157	0.671	1.097	0.58			0.882
36	1.128	2.009	1.115	1.844		0.671	1.161	0.666	1.102	0.58			0.885
37	1.121	2.015	1.108	1.850		0.667	1.166	0.662	1.107	0.54			0.889
38	1.114	2.020	1.102	1.856		0.663	1.170	0.658	1.111	0.54			0.893
39	1.108	2.026	1.095	1.861		0.659	1.174	0.654	1.115	0.54			0.896
40	1.102	2.035	1.090	1.867		0.655	1.180	0.650	1.119	0.54			0.899
41	1.096	2.047	1.084	1.879		0.651	1.189	0.646	1.127	0.53			0.906
42	1.090	2.058	1.078	1.890		0.648	1.197	0.643	1.135	0.53			0.913
43	1.085	2.069	1.072	1.901		0.645	1.205	0.640	1.143	0.53			0.919
44	1.080	2.080	1.067	1.912	_	0.641	1.213	0.636	1.151	0.52			0.925
45	1.074	2.099	1.062	1.922	-	0.638	1.226	0.633	1.158	0.52			0.931
46 47	1.069 1.064	2.116 2.133	1.057 1.052	1.939 1.956	-	0.635	1.239 1.251	0.630 0.627	1.170	0.52			0.941
48	1.054	2.133		1.956	_	0.632 0.628	1.262	0.624	1.182 1.194	0.52			
48	1.059	2.149	1.047	1.972	_	0.628	1.262	0.624	1.194	0.5			0.961
50	1.054	2.172		2.002		0.623	1.279	0.621	1.216	0.5			0.970
51	1.049	2.190	1.033	2.002	H	0.622	1.315	0.615	1.233	0.5			0.978
52	1.044	2.246		2.050	-	0.620	1.332	0.613	1.250	0.5			1.006
53	1.040	2.276		2.073	_	0.617	1.353	0.610	1.266	0.50			1.020
54	1.033	2.312	1.024	2.075	_	0.613	1.379	0.608	1.282	0.50			1.033
55	1.029	2.347	1.020	2.116	_	0.611	1.404	0.605	1.202	0.50			1.045
56	1.026	2.381	1.013	2.110	_	0.609	1.428	0.603	1.321	0.50			1.045
57	1.023	2.421	1.010	2.183		0.607	1.457	0.602	1.345	0.50			1.084
58	1.021	2.473		2.214		0.606	1.494	0.600	1.367	0.50			1.102
59	1.018	2.523	1.004	2.245	_	0.605	1.530	0.598	1.389	0.50			1.120
60	1.015	2.571	1.002	2.274		0.603	1.565	0.597	1.410	0.50			1.137
60.7	1.014	2.604			H	0.602	1.588	2,001		0.50			
61			0.999	2.321				0.596	1.444	1		0.495	1.164
62			0.997	2.366	H			0.594	1.476			0.495	1.191
63			0.995	2.410	_			0.593	1.508			0.494	1.217
64			0.992	2.453				0.592	1.538	1		0.493	1.242
65			0.990	2.494	_			0.591	1.568			0.492	1.266
			2.000					2.001					

EXHIBIT D MOBILE 6.2 Emission Factors for All Type Vehicle

	2017(gr/mi)				013 1	2026(gr/mi)			
	Eroo	<u>`</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	oriol		Eroo			riol
0 1	Free			erial		Free		Arte	
Speed	VOC	Nox	VOC	Nox		VOC	NOx	VOC	NOx
2.5			1.961	0.671				1.633	0.374
3	1.615	0.643	1.577	0.645		1.337	0.351	1.305	0.358
4	1.136	0.610	1.099	0.612		0.928	0.331	0.896	0.338
5	0.848	0.590	0.811	0.592		0.682	0.319	0.650	0.326
6	0.702	0.555	0.702	0.557		0.557	0.297	0.558	0.305
7	0.621	0.518	0.625	0.531		0.488	0.274	0.492	0.290
8	0.559	0.491	0.566	0.512		0.436	0.257	0.442	0.278
9	0.512	0.470	0.521	0.497		0.396	0.244	0.404	0.269
10	0.473	0.453	0.485	0.485		0.364	0.233	0.373	0.262
11	0.444	0.436	0.460	0.467		0.339	0.223	0.352	0.251
12	0.422	0.418	0.439	0.452		0.321	0.212	0.334	0.242
13	0.404	0.403	0.421	0.439		0.305	0.203	0.319	0.235
14	0.388	0.390	0.406	0.428		0.292	0.195	0.306	0.228
15	0.374	0.379	0.392	0.418		0.280	0.189	0.295	0.222
16	0.362	0.371	0.379	0.409		0.270	0.184	0.284	0.217
	0.353					0.270	0.184	0.274	
17		0.369	0.367	0.401					0.212
18	0.344	0.367	0.357	0.393	<u> </u>	0.255	0.183	0.265	0.208
19	0.337	0.365	0.347	0.387		0.248	0.183	0.257	0.204
20	0.330	0.363	0.339	0.381	L	0.242	0.182	0.249	0.201
21	0.324	0.362	0.332	0.376		0.237	0.182	0.244	0.198
22	0.319	0.361	0.326	0.371		0.233	0.181	0.239	0.195
23	0.315	0.359	0.320	0.366		0.229	0.181	0.234	0.193
24	0.311	0.358	0.315	0.362		0.226	0.181	0.230	0.190
25	0.307	0.357		0.358		0.223	0.180	0.236	0.188
-			0.310						
26	0.303	0.356	0.306	0.355		0.220	0.180	0.222	0.186
27	0.300	0.355	0.302	0.352		0.217	0.180	0.218	0.185
28	0.297	0.355	0.298	0.350		0.214	0.180	0.215	0.183
29	0.294	0.354	0.295	0.347		0.211	0.179	0.212	0.182
30	0.291	0.354	0.291	0.345		0.209	0.179	0.209	0.180
31	0.288	0.353	0.288	0.344		0.207	0.179	0.207	0.179
32	0.286	0.353	0.285	0.343		0.205	0.179	0.204	0.179
33	0.283	0.353	0.283	0.342		0.203	0.179	0.202	0.178
-		0.353							
34	0.281		0.280	0.341		0.201	0.179	0.200	0.177
35	0.279	0.353	0.278	0.340		0.199	0.178	0.198	0.177
36	0.277	0.354	0.276	0.341		0.197	0.179	0.197	0.177
37	0.276	0.356	0.275	0.343		0.196	0.180	0.195	0.178
38	0.274	0.357	0.273	0.344		0.195	0.181	0.194	0.179
39	0.273	0.358	0.272	0.346		0.193	0.182	0.193	0.180
40	0.271	0.360	0.270	0.347		0.192	0.183	0.191	0.180
41	0.270	0.363	0.269	0.350		0.191	0.184	0.190	0.182
42	0.269	0.366	0.268	0.352		0.190	0.185	0.189	0.183
43	0.268		0.267	0.355					
		0.368			-	0.189	0.186	0.188	0.184
44	0.267	0.370	0.265	0.357		0.188	0.188	0.187	0.185
45	0.265	0.374	0.264	0.359		0.187	0.189	0.186	0.186
46	0.264	0.378	0.263	0.363		0.186	0.191	0.185	0.188
47	0.263	0.382	0.262	0.366		0.185	0.193	0.185	0.190
48	0.263	0.385	0.261	0.370		0.185	0.194	0.184	0.191
49	0.262	0.390	0.260	0.373		0.184	0.196		0.193
50	0.261	0.395	0.260	0.376		0.183	0.199	0.182	0.194
51	0.260	0.400	0.259	0.381		0.183	0.201	0.182	0.196
52	0.260	0.405	0.258	0.386		0.182	0.203	0.181	0.190
53	0.259	0.403		0.391	<u> </u>	0.182			
			0.258		.		0.206	0.181	0.201
54	0.259	0.418	0.257	0.395	<u> </u>	0.182	0.209	0.180	0.203
55	0.259	0.426	0.256	0.400		0.182	0.212	0.180	0.205
56	0.259	0.432	0.256	0.406		0.182	0.215	0.180	0.208
57	0.259	0.440	0.256	0.413	L	0.182	0.218	0.180	0.210
58	0.259	0.451	0.256	0.419		0.183	0.222	0.180	0.213
59	0.259	0.460	0.256	0.426		0.183	0.226	0.180	0.216
60	0.260	0.470	0.256	0.431		0.183	0.230	0.180	0.218
60.7	0.260	0.477	0.200	0.701		0.183	0.233	0.100	0.210
	0.200	0.411	0.250	0.444		0.103	0.233	0.400	0 222
61			0.256	0.441	<u> </u>			0.180	0.222
62			0.256	0.450				0.180	0.226
63			0.256	0.458				0.181	0.229
64			0.257	0.467	L			0.181	0.233
65			0.257	0.475				0.181	0.236

EXHIBIT D MOBILE 6.2 Emission Factors for All Type Vehicle

			mission F			
	2010(gr/n		2017(gr/n	ni)	2026(gr/n	
	Freeway	Arterial	Freeway	Arterial	Freeway	Arterial
Speed	C)	C)	C	0
2.5		29.784		21.471		19.223
3	27.043	26.675	19.651	19.435	17.618	17.429
4	23.157	22.788		16.891	15.375	15.186
5		20.456	15.580		14.029	
	20.825					13.840
6	19.179	18.926	14.473	14.330		12.924
7	17.959	17.833	13.639	13.591	12.309	12.270
8	17.044	17.013	13.013	13.037	11.753	11.779
9	16.333	16.376	12.526	12.606	11.321	11.397
10	15.763	15.866	12.136	12.261	10.975	11.092
11	15.314	15.467	11.825	11.981	10.699	10.843
12	14.963	15.136	11.577	11.747	10.478	10.635
			11.367	11.549	10.478	
13	14.666	14.855				10.459
14	14.411	14.614	11.186	11.380	10.131	10.309
15	14.191	14.406	11.030	11.233	9.992	10.178
16	14.025	14.217	10.914	11.100	9.889	10.060
17	13.943	14.050	10.861	10.982	9.842	9.955
18	13.871	13.901	10.813	10.878	9.801	9.863
19	13.805	13.769	10.770	10.784	9.763	9.780
20	13.747	13.649	10.770	10.700	9.730	9.705
21	13.694	13.548	10.696	10.627	9.699	9.639
22	13.644	13.457	10.664	10.561	9.671	9.580
23	13.600	13.373	10.635	10.500	9.645	9.526
24	13.558	13.297	10.608	10.445	9.622	9.476
25	13.521	13.226	10.583	10.394	9.600	9.430
26	13.486	13.185	10.560	10.367	9.580	9.407
27	13.454	13.147	10.539	10.343	9.562	9.386
28	13.425	13.111	10.520	10.320	9.545	9.367
29	13.397	13.078	10.502	10.299	9.530	9.349
30	13.372	13.047	10.485	10.279	9.515	9.332
31	13.369	13.053	10.483	10.283	9.514	9.336
32	13.376	13.059	10.488	10.287	9.518	9.339
33	13.383	13.064	10.493	10.291	9.522	9.343
34	13.389	13.069	10.497	10.294	9.526	9.346
35	13.397	13.074	10.503	10.298	9.531	9.349
36	13.474	13.150	10.563	10.258	9.586	9.404
37	13.546	13.223	10.619	10.414	9.639	9.457
38	13.615	13.291	10.673	10.468	9.688	9.506
39	13.680	13.357	10.723	10.518	9.735	9.553
40	13.752	13.418	10.780	10.567	9.787	9.597
41	13.831	13.497	10.841	10.628	9.843	9.654
42	13.906	13.572	10.900	10.687	9.897	9.708
43	13.978	13.644	10.955	10.743	9.949	9.759
44	14.047	13.712	11.010	10.743		9.808
					9.999	
45	14.132	13.778	11.076	10.847	10.060	9.855
46	14.213	13.859	11.139	10.910	10.118	9.914
47	14.290	13.936	11.199	10.970	10.174	9.969
48	14.365	14.011	11.257	11.028	10.227	10.023
49	14.450	14.082		11.084	10.288	10.074
50	14.537	14.150	11.391	11.137	10.351	10.123
51	14.620	14.234	11.456	11.202	10.411	10.183
52	14.700	14.234	11.519	11.265	10.411	10.163
53	14.790	14.391	11.589	11.325	10.533	10.297
54	14.889	14.466	11.667	11.383	10.606	10.350
55	14.985	14.537	11.743	11.439	10.676	10.402
56	15.077	14.630	11.816	11.512	10.744	10.469
57	15.173	14.719	11.891	11.582	10.814	10.534
58	15.280	14.804	11.975	11.650	10.892	10.597
59	15.383	14.887	12.057	11.715	10.968	10.658
	15.482	14.968				
60		14.908	12.135	11.779	11.041	10.717
60.7	15.550		12.189		11.091	
61		15.064		11.855		10.788
62		15.157		11.928		10.856
63		15.248		11.999		10.922
64		15.335		12.068		10.987
65		15.420		12.135		11.049
- 55		10.720		12.100		11.043

EXHIBIT D MOBILE 6.2 Emission Factors For Light Duty Vehicle

<u> </u>	EX	2002(g		E 6.2 Em	iss	ion Facto	ors For L 2007(Vehicle	-1		2009(ar/mi)	
	Free		_	erial		Free		Arte	erial	+	Free		Arte	erial
Speed	VOC	NOx	VOC	Nox		VOC	Nox	VOC	NOx		VOC	NOx	VOC	NOx
2.5			8.253	2.425				5.287	1.372				4.164	1.101
3	6.780	2.284	6.601	2.315		4.309	1.289	4.181	1.310		3.398	1.033	3.299	1.050
4	4.714	2.146	4.535	2.176		2.928	1.210	2.800	1.231		2.317	0.970	2.218	0.988
5	3.475	2.063	3.295	2.094		2.099	1.163	1.972	1.184		1.669	0.933	1.570	0.950
6	2.849	1.915	2.831	1.957		1.696	1.077	1.685	1.105	_	1.353	0.863	1.345	0.887
7	2.501	1.763	2.499	1.860		1.482	0.988	1.480	1.049		1.184	0.792	1.185	0.842
8	2.241	1.649 1.559	2.250	1.786 1.729		1.323 1.198	0.921	1.326 1.207	1.007 0.974	-	1.058 0.961	0.738 0.696	1.063 0.970	0.808
10	1.876	1.489	1.901	1.683		1.098	0.828	1.111	0.948	-	0.882	0.662	0.895	0.761
11	1.754	1.421	1.803	1.616		1.025	0.789	1.054	0.908	+	0.825	0.631	0.849	0.729
12	1.669	1.353	1.721	1.559		0.976	0.749	1.006	0.876	1	0.785	0.598	0.811	0.702
13	1.597	1.295	1.651	1.512		0.933	0.715	0.965	0.848		0.752	0.571	0.779	0.680
14	1.535	1.245	1.591	1.470		0.898	0.686	0.930	0.824		0.723	0.548	0.752	0.661
15	1.481	1.202	1.539	1.435		0.866	0.660	0.900	0.803		0.698	0.527	0.728	0.644
16	1.436	1.175	1.491	1.403		0.840	0.645	0.872	0.785		0.677	0.515	0.705	0.629
17	1.403	1.176	1.449	1.375		0.820	0.646	0.847	0.769		0.662	0.516	0.685	0.616
18	1.374	1.177	1.411	1.350		0.803	0.647	0.825	0.754		0.648	0.517	0.668	0.605
19	1.347	1.179	1.378	1.327		0.787	0.648	0.805	0.741	4	0.636	0.518	0.652	0.594
20	1.323	1.179	1.347	1.307		0.772	0.649	0.787	0.729	4	0.625	0.519	0.638	0.585
21 22	1.303	1.179	1.322	1.288 1.271		0.760 0.749	0.650	0.773	0.719 0.709	4	0.615	0.520	0.626	0.576
23	1.286 1.270	1.180	1.299			0.749	0.650	0.759 0.747	0.709	-	0.607	0.520	0.616 0.606	0.568
23	1.255	1.180 1.180	1.276	1.256 1.241		0.740	0.650 0.651	0.747	0.700	+	0.600	0.520 0.520	0.597	0.561 0.554
25	1.242	1.179	1.241	1.229		0.732	0.651	0.726	0.684		0.586	0.520	0.589	0.548
26	1.229	1.179	1.226	1.216		0.716	0.651	0.717	0.677	1	0.581	0.521	0.582	0.542
27	1.217	1.179	1.212	1.205		0.709	0.651	0.709	0.670	7	0.576	0.521	0.576	0.537
28	1.207	1.179	1.200	1.194		0.703	0.651	0.701	0.664		0.570	0.521	0.570	0.532
29	1.196	1.178	1.188	1.184		0.697	0.651	0.694	0.658		0.566	0.521	0.565	0.528
30	1.186	1.178	1.176	1.174		0.691	0.651	0.687	0.653		0.561	0.521	0.559	0.523
31	1.176	1.176	1.164	1.168		0.685	0.650	0.681	0.649		0.557	0.520	0.554	0.520
32	1.165	1.174	1.153	1.163		0.679	0.650	0.674	0.646		0.553	0.520	0.549	0.518
33	1.155	1.172	1.142	1.157		0.674	0.649	0.668	0.643		0.548	0.519	0.545	0.515
34	1.146	1.171	1.132	1.151		0.668	0.648	0.663	0.640	4	0.544	0.518	0.540	0.513
35 36	1.136 1.130	1.170 1.172	1.122	1.147 1.149		0.664 0.660	0.647 0.648	0.658 0.654	0.637 0.639	_	0.540 0.537	0.518 0.520	0.536 0.533	0.510 0.512
37	1.124	1.174	1.110	1.151		0.656	0.651	0.650	0.640	-	0.534	0.520	0.530	0.512
38	1.118	1.176	1.105	1.154		0.652	0.652	0.647	0.642	-	0.532	0.522	0.528	0.515
39	1.113	1.178	1.100	1.156		0.649	0.654	0.644	0.643	+	0.530	0.524	0.525	0.516
40	1.108	1.181	1.095	1.158		0.646	0.656	0.641	0.645		0.527	0.525	0.523	0.518
41	1.103	1.185	1.089	1.162		0.643	0.659	0.637	0.648		0.525	0.527	0.521	0.520
42	1.097	1.188	1.084	1.165		0.640	0.661	0.635	0.650		0.522	0.529	0.519	0.521
43	1.092	1.191	1.079	1.168		0.637	0.663	0.632	0.653		0.520	0.532	0.516	0.523
44	1.088	1.195	1.075	1.171		0.634	0.666	0.629	0.654	I	0.518	0.533	0.514	0.525
45	1.083	1.199	1.070	1.175		0.631	0.668	0.626	0.657	\rfloor	0.516	0.535	0.512	0.527
46	1.078	1.203	1.066	1.178		0.628	0.671	0.623	0.659	4	0.514	0.538	0.510	0.529
47	1.073	1.207	1.061	1.182		0.625	0.673	0.620	0.662	_	0.512	0.540	0.508	0.532
48	1.069	1.210	1.056	1.186		0.622	0.676	0.618	0.664	4	0.509	0.542	0.506	0.533
49 50	1.064	1.214 1.218	1.051	1.189 1.192		0.620 0.616	0.679 0.682	0.615 0.613	0.667 0.669	+	0.508 0.505	0.545 0.547	0.504 0.502	0.535 0.537
51	1.059	1.222	1.047	1.192		0.614	0.684	0.610	0.672	+	0.503	0.549	0.502	0.537
52	1.050	1.226	1.039	1.200		0.611	0.687	0.607	0.675	+	0.502	0.551	0.498	0.542
53	1.046	1.231	1.035	1.204		0.609	0.689	0.604	0.677	1	0.500	0.553	0.496	0.544
54	1.043	1.235	1.031	1.207		0.606	0.693	0.602	0.679	1	0.498	0.556	0.495	0.546
55	1.039	1.239	1.027	1.211		0.604	0.695	0.599	0.682	J	0.497	0.559	0.493	
56	1.035	1.243	1.023	1.215		0.602	0.698	0.597	0.684		0.495	0.561	0.491	0.550
57	1.032	1.247	1.020	1.219		0.600	0.701	0.596	0.687		0.494	0.563	0.490	0.553
58	1.029	1.252	1.016	1.223		0.598	0.705	0.594	0.690	_	0.492	0.566	0.488	0.554
59	1.026	1.256	1.013	1.227		0.597	0.707	0.591	0.692	4	0.491	0.568	0.487	0.557
60	1.022	1.261	1.010	1.231		0.595	0.710	0.590	0.695	4	0.490	0.571	0.486	0.559
60.7	1.020	1.264	1 007	1.234		0.593	0.712	0.588	0.607	4	0.489	0.573	0.485	0.561
61 62			1.007	1.234				0.588	0.697	4			0.485	0.563
63			1.004	1.243				0.585	0.700	┥			0.482	0.566
64			0.999	1.246				0.583	0.705	7			0.482	0.568
65			0.996	1.250				0.582	0.708	1			0.480	0.570

EXHIBIT D MOBILE 6.2 Emission Factors For Light Duty Vehicle

EXHIBI	I D MOE			1 Factors	s For Light Duty Vehicle 2026(gr/mi)				
	Fran	2017(rial		Fron			rial
Speed	Free VOC	Nox	VOC	erial Nox		Free	NOx	VOC	NOx
2.5	VUC	INOX	1.902	0.445		VUC	NOX	1.607	0.293
3	1.556	0.417	1.513	0.445		1.306	0.273	1.269	0.279
4	1.070	0.391	1.027	0.400		0.884	0.275	0.847	0.262
5	0.778	0.377	0.736	0.385		0.631	0.246	0.594	0.252
6	0.635	0.348	0.633	0.359		0.507	0.226	0.506	0.233
7	0.556	0.318	0.560	0.340		0.440	0.205	0.442	0.220
8	0.499	0.295	0.504	0.326		0.390	0.190	0.395	0.211
9	0.453	0.278	0.462	0.315		0.351	0.178	0.358	0.203
10	0.417	0.264	0.428	0.307		0.320	0.168	0.329	0.197
11	0.390	0.251	0.406	0.294		0.297	0.159	0.310	0.188
12	0.371	0.238	0.387	0.283		0.281	0.150	0.295	0.181
13	0.355	0.226	0.371	0.273		0.267	0.142	0.281	0.174
14	0.341	0.216	0.359	0.266		0.255	0.135	0.270	0.169
15	0.329	0.208	0.347	0.258		0.245	0.129	0.260	0.164
16	0.319	0.203	0.336	0.252		0.236	0.126	0.250	0.160
17	0.311	0.203	0.326	0.247		0.229	0.126	0.241	0.156
18	0.304	0.204	0.317	0.242		0.223	0.126	0.233	0.152
19	0.298	0.204	0.309	0.238		0.218	0.127	0.226	0.149
20	0.292	0.205	0.302	0.234		0.213	0.127	0.220	0.147
21	0.288	0.205	0.296	0.230		0.209	0.128	0.215	0.144
22	0.284	0.205	0.291	0.227		0.205	0.128	0.211	0.142
23	0.281	0.206	0.286	0.224		0.202	0.127	0.207	0.140
24	0.278	0.206	0.282	0.221		0.200	0.128	0.204	0.138
25	0.275	0.206	0.279	0.219		0.198	0.128	0.200	0.136
26	0.273	0.206	0.275	0.216		0.195	0.128	0.198	0.135
27	0.270	0.206	0.272	0.214		0.193	0.128	0.195	0.133
28	0.267	0.206	0.269	0.212		0.191	0.128	0.192	0.132
29	0.265	0.207	0.266	0.210		0.189	0.128	0.190	0.131
30	0.263	0.207	0.264	0.209		0.187	0.128	0.188	0.129
31	0.262	0.207	0.261	0.207		0.186	0.128	0.186	0.129
32	0.260	0.206	0.259	0.206		0.184	0.127	0.184	0.128
33	0.258	0.206	0.257	0.205		0.182	0.127	0.182	0.127
34	0.256	0.205	0.255	0.204		0.181	0.127	0.180	0.126
35	0.255	0.205	0.253	0.203		0.180	0.127	0.179	0.125
36	0.253	0.206	0.252	0.204		0.179	0.127	0.178	0.125
37	0.252	0.207	0.251	0.205		0.178	0.128	0.177	0.126
38	0.251	0.208	0.250	0.205		0.176	0.129	0.175	0.127
39	0.250	0.208	0.249	0.206		0.176	0.129	0.175	0.127
40	0.249	0.209	0.248	0.207		0.175	0.130	0.174	0.128
41	0.248	0.210	0.247	0.207		0.174	0.130	0.173	0.129
42	0.247	0.211	0.246	0.208		0.173	0.131	0.172	0.129
43	0.246	0.212	0.245	0.209		0.172	0.132	0.171	0.130
44	0.245	0.213	0.244	0.210		0.171	0.132	0.171	0.130
45	0.245	0.214	0.244	0.211		0.171	0.133	0.170	0.131
46	0.244	0.215	0.243	0.212		0.170	0.133	0.170	0.132
47	0.244	0.216 0.217	0.242	0.213		0.170	0.134	0.169 0.168	0.132
48 49	0.243	0.217	0.241	0.214 0.215		0.169 0.168	0.135 0.136	0.168	0.133
50	0.242	0.218	0.241	0.215		0.168	0.136	0.167	0.133
51	0.241	0.219	0.240	0.216		0.168	0.137	0.167	0.134
52	0.241	0.220	0.239	0.217		0.167	0.137	0.166	0.135
53	0.240	0.221	0.238	0.216		0.167	0.138	0.166	0.136
54	0.240	0.223	0.238	0.219		0.166	0.130	0.165	0.130
55	0.239	0.225	0.237	0.220		0.166	0.139	0.165	0.137
56	0.239	0.225	0.237	0.221		0.166	0.140	0.163	0.137
57	0.239	0.226	0.237	0.223		0.165	0.140	0.164	0.130
58	0.238	0.227	0.237	0.223		0.165	0.141	0.164	0.139
59	0.238	0.227	0.236	0.225		0.165	0.142	0.164	0.139
60	0.238	0.230	0.236	0.226		0.165	0.143	0.164	0.140
60.7	0.238	0.231	5.200	5.220		0.165	0.143	5.104	5.170
61	0.200	0.201	0.236	0.226		5.100	5.1.10	0.163	0.141
62			0.236	0.228				0.163	0.142
63			0.235	0.229				0.163	0.142
64			0.235	0.230				0.163	0.143
65			0.235	0.231				0.163	0.144
				'					

EXHIBIT E AIR QUALITY ANALYSIS EXEMPT CODES

<u>Safety</u>	
E-1	Railroad/Highway Crossing
E-2	Hazard Elimination Program
E-3	Safer Non-Federal Aid System Roads
E-4	Shoulder Improvements
E-5	Increasing Sight Distance
E-6	Safety Improvement Program
E-7	Traffic Control Devices and Operating Assistance Other Than Signalization Projects
E-8	Railroad/Highway Crossing Warning Devices
E-9	Guardrails, Median Barriers, Crash Cushions
E-10	Pavement Resurfacing and/or Rehabilitation
E-11	Pavement Marking Demonstration
E-12	Emergency Relief (23 U.S.C. 125)
E-13	Fencing
E-14	Skid Treatments
E-15	Safety Roadside Rest Areas
E-16	Adding Medians
E-17	Truck Climbing Lanes outside the Urbanized Area
E-18	Lighting Improvements
E-19	Widening Narrow Pavements or Reconstructing Bridges (No Additional Travel Lanes)
E-20	Emergency Truck Pullovers
Mass Tra	
E-21	Operating Assistance to Transit Agencies
E-22	Purchase of Support Vehicles
E-23	Rehabilitation of Transit Vehicles ¹
E-24	Purchase of Office, Shop, and Operating Equipment for Existing Facilities
E-25	Purchase of Operating Equipment for Vehicles (e.g., radios, fareboxes, lifts, etc.)
E-26	Construction or Renovation of Power, Signal and Communication Systems
E-27	Construction of Small Passenger Shelters and Information Kiosks
E-28	Reconstruction or Renovation of Transit Buildings and Structures
E-29	Rehabilitation or Reconstruction of Track Structures, Track, and Track Bed in Existing Rights –of-Way
E-30	Purchase of New Buses and Rail Cars to Replace Existing Vehicles or for Minor Expansion of the Fleet
E-31	Construction of New Bus or Rail Storage/Maintenance Facilities Categorically Excluded in 23 CFR Part 771
Air Quali	
E-32	Continuation of Ride Sharing and Van Pooling Promotion Activities at Current Levels
E-33	Bicycle and Pedestrian Facilities
Other	Signal and Colored
	Activities Which Do Not Involve or Lead Directly to Construction, Such As:
E-34	Planning and Technical Studies
E-35	Grants for Training and Research Programs
E-36	Planning Activities Conducted Pursuant to Titles 23 and 49 U.S.C.
E-37	Federal Aid Systems Revisions
E-38	Engineering to Assess Social, Economic and Environmental Effects of the Proposed Action or Alternatives to
L-30	That Action
E-39	Noise Attenuation
E-40	Advance Land Acquisitions (23 CFR part 712 or 23 CFR part 771)
E-41	Acquisition of Scenic Easements
E-42	The state of the s
E-43	Planting, Landscaping, etc. Sign Removal
E-44	Directional and Informational Signs
E-44 E-45	Transportation Enhancement Activities (Except Rehabilitation and Operation of Historic Transportation
L-43	Buildings, Structures or Facilities)
Г 46	Repair of Damage Caused by Natural Disasters, Civil Unrest, or Terrorist Acts, Except Projects Involving
E-46	
A T.T.	Substantial Functional, Locational or Capacity Changes
ATT	Project is Located in Attainment Area and, therefore, Not Subject to Conformity
	TS EXEMPT FROM REGIONAL EMISSION ANALYSIS
E-51	Intersection Channelization Projects
E-52	Intersection Signalization Projects at Individual Intersections
E-53	Interchange Reconfiguration Projects
E-54	Changes in Vertical and Horizontal Alignment
E-55	Truck Size and Weight Inspection Stations
E-56	Bus Terminals and Transfer Points
	EXEMPT CODES
N/E	Project is Not-Exempt

¹ PM10 non-attainment and maintenance areas, such projects are exempt only if they are in compliance with control measures

in the applicable implementation plan

EXHIBIT F

Computerized Transportation Information System (CTIS) in the SNHPC Region
Project # 98-21CM
Air Quality Credit Calculation

Brief description of the project

This project involves setting up a Computerized Transportation Information System (CTIS) throughout SNHPC member communities at approximately five locations. The system will consist of several computer kiosks located at strategic points that people can use to perform ridesharing match either for daily commute or for single trip (for workshop, conference, etc.). In addition to the above capability, the kiosks will also provide information on transit schedules and fares, airport and airline schedules, inter-city bus, roadway construction projects, and real time traffic incident. The ride matching program will help in reducing Single Occupant Vehicles (SOV) on the highways through carpools and vanpools, and thus relieve them from congestion and air pollution. The kiosks will also disseminate information on alternative commute options and provide the user with the cost of commute by "drive alone" option.

Air Quality Benefits

To determine the potential for air quality reduction, past statistics from the kiosk usage was researched. Data showed that there is a potential of about 0.01% trip reductions in the region. It is expected that the usage of these kiosks will be more in the future as people get to know them. The Commission is aggressively pursuing to promote its kiosk sites in the region. To be conservative, this amount is kept constant until year 2025. To find the benefits of air quality in absolute numbers, existing regional transportation model was used for analysis. To be more conservative off-model calculations are done to determine additional sources of VMTs and emissions by taking into account all the uncoded links in the model and all intrazonal trips which are not readily assigned by the traffic model. In order to determine emission credits, the build scenario VMTs were multiplied by 0.01% (0.0001). The following tables show the results of air quality analysis. As the project began operation in the year 2002, analysis is done for 2007, 2009, 2017, and 2026. The emission factors used are for LDVs for a speed of 30 mph on arterials.

Emission Factors

YEAR	HC(gm/mile)	NOx(gm/mile)
2002	1.176	1.174
2007	0.687	0.653
2009	0.559	0.523
2017	0.264	0.209
2026	0.188	0.129

LDV Emission factors for 30 mph on arterials

HC and NOx Credits

		WICHELL,	Valuation A.
YEAR	VMT Reductions	HC(kg/day)	Nox(Kg/day)
2002	869	0.95	0.94
2007	869	0.56	0.54
2009	902	0.48	0.45
2017	991	0.25	0.20
2026	1110	0.20	0.14

AIR QUALITY ANALYSIS FOR MANCHESTER PARK AND RIDE USING M6.2 FACTORS

Description: Construct 600 Spaces Park and Ride structure with intermodal transportation center and rail platform on a five-acre site in Manchester

PROJECT LOCATION	MANCHESTER							
PROJECT DESCRIPTION:								
MPO	NONATTAINME	ENT AREA:	MANCHESTE	R				
OPEN TO TRAFFIC								
STREET NAME:						PAGE 1 OF 1		
LOCATION								
PROPOSED SIZE:		SPACES						
GROWTH RATE	0.00%							
					2017	2017	2026	2026
TRAFFIC					NO BUILD		NO BUILD	BUILD
AADT					0	540	0	540
SUMMER ADT:					0	540	0	540
AVERAGE SPEED:					55	55	55	55
LENGTH (MILES)*:						40.00		40
					2017	2017	2026	2026
MOBILE6.2					NO BUILD	BUILD	NO BUILD	BUILD
EMISSION FACTORS								
HC (gm/mi)						0.239		0.166
CO (gm/mi)						12.498		11.490
NOx (gm/mi)					2015	0.225	2026	0.140
[SUMMER ADT*LENGTH*(gm/mi)]/1000=					2017	2017	2026	2026
TOTAL EMISSIONS					NO BUILD 0.00	5.17	NO BUILD	BUILD 3.59
HC (kgs/day)					0.00	269.95		248.19
CO (kgs/day) NOx (kgs/day)					0.00	4.85		3.02
NOX (kgs/day)	'				0.00	4.65		3.02
DIFFERENCES (BUILD-NO BUILD))							
HC (kgs/day)				-		5.17		3.59
CO (kgs/day)				0.00		269.95		248.19
NOx (kgs/day)				-		4.85		3.02

ASSUMPTIONS:

- 1. The first Ozone analysis year is assumed to be 2017. it is being assumed that 90% of the full capacity would be utilized.
- 2. Assuming a 90% usage of the lot in the year 2017 and 2026 amounts to 540 trips.
- 3. Based on the number of commuting residents commuting out of Manchester area, it appears that parking lot usage of 90% in the years 2017, and 2026 is justified.
- 4. It is being assumed conservatively that each trip will be traveling 20 miles each way, making it a total of 40 miles two-way. Looking at the destinations, this number is low and will take care of the positive VMT added by the cars driving to the park-n-ride lot.
- 5. Looking at the routes that the traffic will be following, an average speed of 55 mph is being assumed.
- 6. The HC and NOx factors are for Summer and CO factors are for Winter
- 7. The procedure for the above analysis is developed by the NHDOT.
- 8. The analysis is done using the Mobile 6.2 Emission Factors (for LDVs).

South Manchester Rail Trail CMAQ Grant Application Air Quality Analysis (Emission Credits) using MOBILE6.2 factors

It is estimated that approximately 760 Vehicle Miles of Travel (VMT) per day will be removed from the surrounding roadways as a result of this project (source: VHB analysis). Southern New Hampshire Planning Commission's (SNHPC) Regional Travel Demand Model was used to determine the travel speeds on the project's capture area roadways. The results show that the average travel speed on these roadways is approximately 30 miles per hour.

Emission values are calculated by multiplying VMT values with emission factors for an average speed (Equation 1). LDV Emission values were obtained from New Hampshire Department of Environmental Services' (NHDES) analysis of MOBILE 6.2 Emission model and are as follows (Table 1) for all the existing air quality conformity analysis years.

Emission (kg/day) = VMT * Emission Factor (gm/mile)/1000(Eq 1)

TABLE 1: Emission Factors (gm/mile)

2007	2009	2017	2026
HC = 0.687	HC = 0.559	HC=0.264	HC=0.188
NOX = 0.653	NOX = 0.523	NOX=0.209	NOX=0.130

^{*} Note: The above emission factors are for a speed of 30 mph for LDV HC=Hydro Carbon, NOx = Nitrogen Oxide

Table 2 below shows the results of the emission savings due to this project. Please note that even for all the future analysis years, the reduction in VMTs are kept constant for conservative analysis.

TABLE 2: Emission Analysis

YEAR	VMT REDUCTION	EMISSION REDUCTION			
ILAK	VIVII REDUCTION	HC (kgs/day)	NOX (kgs/day)		
2007	760	0.52	0.50		
2009	760	0.42	0.40		
2017	760	0.20	0.16		
2026	760	0.14	0.10		

As this project will have limited use during the winter months, no CO analysis (for winter months) for City of Manchester is performed and no CO credit is taken.

Pillsbury Road/Mammoth Road Sidewalk Project CMAQ Grant Application Air Quality Analysis (Emission Credits) using MOBILE6.2 Factors

It is estimated that approximately 53 Vehicle Miles of Travel (VMT) per day will be removed from the surrounding roadways as a result of this project (source: Town of Londonderry analysis). Southern New Hampshire Planning Commission's (SNHPC) Regional Travel Demand Model was used to determine the travel speeds on the project's capture area roadways. The results show that the average travel speed on these roadways is approximately 30 miles per hour.

Emission values are calculated by multiplying VMT values with emission factors for an average speed (Equation 1). LDV Emission values were obtained from New Hampshire Department of Environmental Services' (NHDES) analysis of MOBILE 6.2 Emission model and are as follows (Table 1) for all the existing air quality conformity analysis years.

Emission (kgs/day) = VMT * Emission Factor (gm/mile)/1000(Eq 1)

TABLE 1: Emission Factors (gm/mile)

2007	2009	2017	2026
HC = 0.687	HC = 0.559	HC=0.264	HC=0.188
NOX = 0.653	NOX = 0.523	NOX=0.209	NOX=0.130

Source: NHDES

Table 2 below shows the results of the emission savings due to this project. Please note that even for all the future analysis years, the reduction in VMTs are kept constant for conservative analysis.

TABLE 2: Emission Analysis

YEAR	VMT REDUCTION	EMISSION REDUCTION				
TEAR	VIVII REDUCTION	HC (kgs/day)	NOX (kgs/day)			
2007	53	0.036	0.035			
2009	53	0.030	0.028			
2017	53	0.014	0.011			
2026	53	0.010	0.007			

Source: SNHPC Analysis

^{*} Note: The above emission factors are for a speed of 30 mph for LDVs HC=Hydro Carbon, NOx = Nitrogen Oxide

US 3/NH 28 - INTERSECTION IMPROVEMENTS @ NH 28 BYPASS AND OPTIMIZE SIGNAL SYSTEMS FROM NH 28 BYPASS TO LEGENDS DRIVE [98-20CM]

The following analysis is performed by the NHDOT (Using Mobile 6.2 Emission Factors)

Summar	y

Scenario	Emissi	ons
	VOC	NOx
	kg/day	kg/day
2007 No-Build	6.42	9.32
2007 Build	5.42	8.96
Reduction	1.00	0.36
2009 No-Build	5.44	7.76
2009 Build	4.62	7.45
Reduction	0.83	0.31
2017 No-Build	2.58	2.84
2017 Build	2.21	2.72
Reduction	0.37	0.11
2026 No-Build	2.24	1.77
2026 Build	1.88	1.69
Reduction	0.36	0.08

Analysis data is from SNHPC traffic model

No-build refers to "no signal coordination project"

Assume that building this project increases the average speed by 1 mph and decreases the total delay by 10 seconds per vehicle

2007 No-Build								
			Model		Emission	Factors	Emissio	ns
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 28 Bypass - GS Marketplace	0.175	35	28617	5008	0.671	1.097	3.36	5.49
GS Marketplace - Legends Dr	0.13	35	24038	3125	0.671	1.097	2.10	3.43
	0.305	_	26665				5.46	8.92
	Time(sec)							
Delay (more than build)	10	2.5	26665		5.197	2.156	0.96	0.40
						Total	6.42	9.32
2007 Build								
			Model		Emission	Factors	Emissio	ns
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 28 Bypass - GS Marketplace	0.175	36	28617	5008	0.666	1.102	3.34	5.52
GS Marketplace - Legends Dr	0.13	36	24038	3125	0.666	1.102	2.08	3.44
	0.305	_	26665			Total	5.42	8.96

			Model		Emission	Factors	Emissio	ns
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 28 Bypass - GS Marketplace	0.175	35	29600	5180	0.552	0.882	2.86	4.57
GS Marketplace - Legends Dr	0.13	35	24936	3242	0.552	0.882	1.79	2.86
, ,	0.305		27612				4.65	7.43
	Time(sec)							
Delay (more than build)	10	2.5	27612		4.142	1.735	0.79	0.33
						Total	5.44	7.76
2009 Build						_		
			Model		Emission		Emissio	
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 28 Bypass - GS Marketplace	0.175	36	29600	5180	0.548	0.885	2.84	4.58
GS Marketplace - Legends Dr	0.13	36	24936	3242	0.548	0.885	1.78	2.87
	0.305		27612			Total	4.62	7.45
2017 No-Build								
		E	stimated		Emission	Factors	Emissio	ns
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 28 Bypass - GS Marketplace	0.175	35	27856	4875	0.278	0.340	1.36	1.66
GS Marketplace - Legends Dr	0.13	35	23958	3115	0.278	0.340	0.87	1.06
	0.305		26195				2.22	2.72
	Time(sec)							
Delay (more than build)	10	2.5	26195		1.961	0.671	0.36	0.12
						Total	2.58	2.84
2017 Build		_						
Ocation			stimated		Emission		Emissio	ns
				\ /B 4T			1/00	NO
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 28 Bypass - GS Marketplace	(miles) 0.175	(mph) 36	(daily) 27856	4875	g/mile 0.276	g/mile 0.341	kg/day 1.35	kg/day 1.66
	(miles) 0.175 0.13	(mph)	(daily) 27856 23958		g/mile	g/mile 0.341 0.341	kg/day 1.35 0.86	kg/day 1.66 1.06
NH 28 Bypass - GS Marketplace	(miles) 0.175	(mph) 36	(daily) 27856	4875	g/mile 0.276	g/mile 0.341	kg/day 1.35	kg/day 1.66
NH 28 Bypass - GS Marketplace	(miles) 0.175 0.13	(mph) 36 36	(daily) 27856 23958 26195	4875 3115	g/mile 0.276 0.276	g/mile 0.341 0.341 Total	kg/day 1.35 0.86 2.21	kg/day 1.66 1.06 2.72
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build	(miles) 0.175 0.13 0.305	(mph) 36 36 36	(daily) 27856 23958 26195 stimated	4875 3115	g/mile 0.276 0.276	g/mile 0.341 0.341 Total	kg/day 1.35 0.86 2.21	kg/day 1.66 1.06 2.72
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr	(miles) 0.175 0.13	(mph) 36 36	(daily) 27856 23958 26195	4875 3115	g/mile 0.276 0.276 Emission VOC	g/mile 0.341 0.341 Total	kg/day 1.35 0.86 2.21 Emissio VOC	kg/day 1.66 1.06 2.72
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build	(miles) 0.175 0.13 0.305	(mph) 36 36 36	(daily) 27856 23958 26195 stimated Volume (daily)	4875 3115 VMT	g/mile 0.276 0.276 Emission VOC g/mile	g/mile 0.341 0.341 Total Factors NOx g/mile	kg/day 1.35 0.86 2.21 Emissio VOC kg/day	kg/day 1.66 1.06 2.72 ons NOx kg/day
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace	(miles) 0.175 0.13 0.305	(mph) 36 36 36 Speed (mph) 35	(daily) 27856 23958 26195 stimated Volume	4875 3115	g/mile 0.276 0.276 Emission VOC	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177	kg/day 1.35 0.86 2.21 Emissio VOC	kg/day 1.66 1.06 2.72
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13	(mph) 36 36 36 Speed (mph)	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570	4875 3115 VMT	g/mile 0.276 0.276 Emission VOC g/mile	g/mile 0.341 0.341 Total Factors NOx g/mile	kg/day 1.35 0.86 2.21 Emissio VOC kg/day	kg/day 1.66 1.06 2.72 ons NOx kg/day
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305	(mph) 36 36 36 Speed (mph) 35	(daily) 27856 23958 26195 stimated Volume (daily) 33209	4875 3115 VMT 5812	g/mile 0.276 0.276 Emission VOC g/mile 0.198	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec)	(mph) 36 36 36 Speed (mph) 35 35	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232	4875 3115 VMT 5812	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 0.198	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305	(mph) 36 36 36 Speed (mph) 35	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570	4875 3115 VMT 5812	g/mile 0.276 0.276 Emission VOC g/mile 0.198	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec)	(mph) 36 36 36 Speed (mph) 35 35	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232	4875 3115 VMT 5812	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 0.198	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec)	(mph) 36 36 36 Speed (mph) 35 35	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232	4875 3115 VMT 5812	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 0.198	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec)	(mph) 36 36 36 Speed (mph) 35 35 2.5	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232 31232	4875 3115 VMT 5812 3714	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 0.198	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177 0.374 Total	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35 2.24	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69 0.08
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr Delay (more than build) 2026 Build	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec) 10	(mph) 36 36 36 Speed (mph) 35 35 2.5	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232 31232	4875 3115 VMT 5812 3714	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 0.198 1.633	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177 0.374 Total Factors	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35 2.24	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69 0.08
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr Delay (more than build)	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec) 10	(mph) 36 36 36 Speed (mph) 35 35 2.5	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232 31232 stimated Volume	4875 3115 VMT 5812 3714	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 0.198 1.633	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177 0.374 Total Factors NOx	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35 2.24 Emissio VOC	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69 0.08 1.77
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr Delay (more than build) 2026 Build Section	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec) 10 Length (miles)	(mph) 36 36 36 Speed (mph) 35 35 2.5	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232 31232 stimated Volume (daily)	4875 3115 VMT 5812 3714	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 1.633 Emission VOC g/mile	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177 0.374 Total Factors NOx g/mile	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35 2.24 Emissio VOC kg/day	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69 0.08 1.77
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr Delay (more than build) 2026 Build Section NH 28 Bypass - GS Marketplace	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec) 10 Length (miles) 0.175	(mph) 36 36 36 Speed (mph) 35 35 2.5	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232 31232 stimated Volume (daily) 33209	4875 3115 VMT 5812 3714 VMT	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 1.633 Emission VOC g/mile 0.197	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177 0.374 Total Factors NOx g/mile 0.177	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35 2.24 Emissio VOC kg/day 1.14	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69 0.08 1.77
NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr 2026 No-Build Section NH 28 Bypass - GS Marketplace GS Marketplace - Legends Dr Delay (more than build) 2026 Build Section	(miles) 0.175 0.13 0.305 Length (miles) 0.175 0.13 0.305 Time(sec) 10 Length (miles)	(mph) 36 36 36 Speed (mph) 35 35 2.5	(daily) 27856 23958 26195 stimated Volume (daily) 33209 28570 31232 31232 stimated Volume (daily)	4875 3115 VMT 5812 3714	g/mile 0.276 0.276 0.276 Emission VOC g/mile 0.198 1.633 Emission VOC g/mile	g/mile 0.341 0.341 Total Factors NOx g/mile 0.177 0.177 0.374 Total Factors NOx g/mile	kg/day 1.35 0.86 2.21 Emissio VOC kg/day 1.15 0.74 1.89 0.35 2.24 Emissio VOC kg/day	kg/day 1.66 1.06 2.72 ons NOx kg/day 1.03 0.66 1.69 0.08 1.77

Sample Calculations

2026 Build VOC for NH 28 Bypass to GS Marketplace

VMT = .175 miles * 33209 veh/day = 5812 veh-miles/day VOC = (5812 veh-miles/day * 0.197 g/veh-mile)/(1000g/kg) = 1.14 kg/day

Delay for 2026 No-Build

Average Volume for project is the weighted average of the sections

Delay VOC = (31232 veh/day * 10 sec/veh * 1.633 g/mile * 2.5 mile/hr) / (3600 sec/hr * 1000 g/kg) = 0.35 kg/day

Londonderry NH 102 Signal Coordination Project State #13116

INSTALLATION OF COORDINATED TRAFFIC SIGNAL SYSTEM FROM I-93, EXIT 4 WESTERLY TO NH 128 [98-19CM]

Summary

The following analysis is done by the NHDOT Using Mobile 6.2 Emission Factors

Scenario	Emissi	ons
	VOC	NOx
	kg/day	kg/day
2007 No-Build	27.446	42.938
2007 Build	26.399	42.584
Reduction	1.047	0.354
2009 No-Build	23.331	35.720
2009 Build	22.476	35.416
Reduction	0.855	0.304
2017 No-Build	11.918	14.021
2017 Build	11.501	13.903
Reduction	0.417	0.117
2026 No-Build	9.791	8.354
2026 Build	9.420	8.257
Reduction	0.371	0.097

Analysis data is from SNHPC traffic model

No-build refers to "no signal coordination project"

Assume that building this project increases the average speed by 1 mph and decreases the total delay by 10 seconds per vehicle.

Calculations								
2007 No-Build								
			Model		Emission I	Factors	Emiss	ions
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 128 - Buttrick Rd.	8.0	35	17130	13704	0.671	1.097	9.20	15.03
Buttrick D - Gilcrest Rd	0.68	30	20265	13780	0.705	1.113	9.72	15.34
Gilcrest Rd - I93 SB on Ramp	0.3	30	36670	11001	0.705	1.113	7.76	12.24
	1.78	_	21621			_	26.67	42.61
	Time(sec)							
Delay (more than build)	10	2.5	21621		5.197	2.156	0.78	0.32
						Total	27.45	42.94
2007 Build								
			Model		Emission I	Factors	Emiss	ions
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 128 - Buttrick Rd.	8.0	36	17130	13704	0.666	1.102	9.13	15.10
Buttrick D - Gilcrest Rd	0.68	31	20265	13780	0.697	1.109	9.60	15.28
Gilcrest Rd - I93 SB on Ramp	0.3	31_	36670	11001	0.697	1.109	7.67	12.20
	1.78	_	21621			Total	26.40	42.58

2009 No-Build			Model		Emission	Factors	Emissi	ions
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 128 - Buttrick Rd.	0.8	35	17730	14184	0.552	0.882	7.83	12.51
Buttrick D - Gilcrest Rd	0.68	30	21000	14280	0.579	0.894	8.27	12.77
Gilcrest Rd - I93 SB on Ramp	0.3	30	37933	11380	0.579	0.894	6.59	10.17
	1.78	_	22384				22.69	35.45
	Time(sec)							
Delay (more than build)	10	2.5	22384		4.142	1.735	0.64	0.27
						Total	23.33	35.72
2009 Build								
2000 Bana			Model		Emission	Factors	Emissi	ons
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
	(miles)	(mph)	(daily)		g/mile	g/mile	kg/day	kg/day
NH 128 - Buttrick Rd.	0.8	36	17730	14184	0.548	0.885	7.77	12.55
Buttrick D - Gilcrest Rd	0.68	31	21000	14280	0.573	0.891	8.18	12.72
Gilcrest Rd - I93 SB on Ramp	0.3	31	37933	11380	0.573	0.891	6.52	10.14
	1.78		22384			Total	22.48	35.42
2017 No-Build			Model		Emission		Emissi	
Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
NII 400 B # 1 B I	(miles)	(mph)	(daily)	4.4700	g/mile	g/mile	kg/day	kg/day
NH 128 - Buttrick Rd.	0.8	35	18379	14703	0.278	0.34	4.09	5.00
Buttrick D - Gilcrest Rd	0.68	30	21661	14729	0.291	0.345	4.29	5.08
Gilcrest Rd - I93 SB on Ramp	<u>0.3</u> 1.78	30_	37042 22778	11113	0.291	0.345	3.23 11.61	3.83
	Time(sec)		22110				11.01	13.91
Delay (more than build)	10	2.5	22778		1.961	0.671	0.31	0.11
zolay (mero mambana)	. •	0				Total	11.92	14.02
2017 Build			Model			Fo eto ro	- Francisco	ione.
	Longth	Speed	Model	\/N.4 T	Emission		Emissi	
2017 Build Section	Length	Speed	Volume	VMT	VOC	NOx	VOC	NOx
Section	(miles)	(mph)	Volume (daily)		VOC g/mile	NOx g/mile	VOC kg/day	NOx kg/day
Section NH 128 - Buttrick Rd.	(miles) 0.8	(mph) 36	Volume (daily) 18379	14703	VOC g/mile 0.276	NOx g/mile 0.341	VOC kg/day 4.06	NOx kg/day 5.01
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd	(miles) 0.8 0.68	(mph) 36 31	Volume (daily) 18379 21661	14703 14729	VOC g/mile 0.276 0.288	NOx g/mile 0.341 0.344	VOC kg/day 4.06 4.24	NOx kg/day 5.01 5.07
Section NH 128 - Buttrick Rd.	(miles) 0.8 0.68 0.3	(mph) 36	Volume (daily) 18379 21661 37042	14703	VOC g/mile 0.276	NOx g/mile 0.341 0.344 0.344	VOC kg/day 4.06 4.24 3.20	NOx kg/day 5.01 5.07 3.82
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd	(miles) 0.8 0.68	(mph) 36 31	Volume (daily) 18379 21661	14703 14729	VOC g/mile 0.276 0.288	NOx g/mile 0.341 0.344	VOC kg/day 4.06 4.24	NOx kg/day 5.01 5.07
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp	(miles) 0.8 0.68 0.3	(mph) 36 31 31	Volume (daily) 18379 21661 37042 22778	14703 14729	VOC g/mile 0.276 0.288 0.288	NOx g/mile 0.341 0.344 0.344 Total	VOC kg/day 4.06 4.24 3.20 11.50	NOx kg/day 5.01 5.07 3.82 13.90
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build	(miles) 0.8 0.68 0.3 1.78	(mph) 36 31 31_	Volume (daily) 18379 21661 37042 22778	14703 14729 11113	VOC g/mile 0.276 0.288 0.288	NOx g/mile 0.341 0.344 0.344_ Total	VOC kg/day 4.06 4.24 3.20 11.50	NOx kg/day 5.01 5.07 3.82 13.90
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp	(miles) 0.8 0.68 0.3 1.78	(mph) 36 31 31_ Speed	Volume (daily) 18379 21661 37042 22778 Estimated Volume	14703 14729	VOC g/mile 0.276 0.288 0.288	NOx g/mile 0.341 0.344 0.344 Total	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC	NOx kg/day 5.01 5.07 3.82 13.90
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section	(miles) 0.8 0.68 0.3 1.78	(mph) 36 31 31_ Speed (mph)	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily)	14703 14729 11113	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile	NOx g/mile 0.341 0.344 Total Factors NOx g/mile	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day	NOx kg/day 5.01 5.07 3.82 13.90
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd.	(miles) 0.8 0.68 0.3 1.78	(mph) 36 31 31_ Speed (mph) 35	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929	14703 14729 11113 VMT 16743	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198	NOx g/mile 0.341 0.344 Total Factors NOx g/mile 0.177	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32	NOx kg/day 5.01 5.07 3.82 13.90 tons NOx kg/day 2.96
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68	(mph) 36 31 31_ Speed (mph) 35 30	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922	14703 14729 11113 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209	NOx g/mile 0.341 0.344 Total Factors NOx g/mile 0.177 0.18	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54	NOx kg/day 5.01 5.07 3.82 13.90 tons NOx kg/day 2.96 3.05
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd.	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3	(mph) 36 31 31_ Speed (mph) 35	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087	14703 14729 11113 VMT 16743	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198	NOx g/mile 0.341 0.344 Total Factors NOx g/mile 0.177	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64	NOx kg/day 5.01 5.07 3.82 13.90 fons NOx kg/day 2.96 3.05 2.27
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3 1.78	(mph) 36 31 31_ Speed (mph) 35 30	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922	14703 14729 11113 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209	NOx g/mile 0.341 0.344 Total Factors NOx g/mile 0.177 0.18	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54	NOx kg/day 5.01 5.07 3.82 13.90 tons NOx kg/day 2.96 3.05
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3	(mph) 36 31 31_ Speed (mph) 35 30 30_	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087	14703 14729 11113 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209	NOx g/mile 0.341 0.344 Total Factors NOx g/mile 0.177 0.18	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3 1.78 Time(sec)	(mph) 36 31 31_ Speed (mph) 35 30	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020	14703 14729 11113 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209	NOx g/mile 0.341 0.344 Total Factors NOx g/mile 0.177 0.18 0.18	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp Delay (more than build)	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3 1.78 Time(sec)	(mph) 36 31 31_ Speed (mph) 35 30 30_	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020	14703 14729 11113 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.18 0.18 0.374 0.374 0.374	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3 1.78 Time(sec)	(mph) 36 31 31_ Speed (mph) 35 30 30_	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020	14703 14729 11113 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.18 0.374 Total	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50 0.30 9.79	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29 0.07 8.35
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp Delay (more than build) 2026 Build	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3 1.78 Time(sec) 10	(mph) 36 31 31_ Speed (mph) 35 30 30_	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020 26020	14703 14729 11113 VMT 16743 16947 12626	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.18 0.374 Total	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50 0.30 9.79	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29 0.07 8.35
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp Delay (more than build)	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3 1.78 Time(sec) 10	(mph) 36 31 31 31_ Speed (mph) 35 30 30_ 2.5	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020 26020 Estimated Volume	14703 14729 11113 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209 1.633	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.18 0.374 Total Factors NOx	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50 0.30 9.79 Emissi VOC	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29 0.07 8.35
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp Delay (more than build) 2026 Build Section	(miles) 0.8 0.68 0.3 1.78 Length (miles) 0.8 0.68 0.3 1.78 Time(sec) 10 Length (miles)	(mph) 36 31 31 31_ Speed (mph) 35 30 30_ 2.5	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020 26020 Estimated Volume (daily)	14703 14729 11113 VMT 16743 16947 12626	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209 1.633 Emission VOC g/mile	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.18 0.374 Total Factors NOx g/mile 0.3774 Total	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50 0.30 9.79 Emissi VOC kg/day	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29 0.07 8.35
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp Delay (more than build) 2026 Build Section NH 128 - Buttrick Rd.	(miles)	(mph) 36 31 31 31 Speed (mph) 35 30 30 2.5	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020 26020 Estimated Volume (daily) 20929	14703 14729 11113 VMT 16743 16947 12626 VMT	VOC g/mile 0.276 0.288 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209 1.633 Emission VOC g/mile 0.197	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.18 Total Factors NOx g/mile 0.177	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50 0.30 9.79 Emissi VOC kg/day	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29 0.07 8.35
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp Delay (more than build) 2026 Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd	(miles)	(mph) 36 31 31 31 Speed (mph) 35 30 30 2.5	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020 26020 Estimated Volume (daily) 20929 24922 42087	14703 14729 11113 VMT 16743 16947 12626 VMT 16743 16947	VOC g/mile 0.276 0.288 0.288 Emission VOC g/mile 0.198 0.209 1.633 Emission VOC g/mile 0.197 0.207	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.374 Total Factors NOx g/mile 0.177 0.179	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50 0.30 9.79 Emissi VOC kg/day 3.32	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29 0.07 8.35
Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp 2026 No-Build Section NH 128 - Buttrick Rd. Buttrick D - Gilcrest Rd Gilcrest Rd - I93 SB on Ramp Delay (more than build) 2026 Build Section NH 128 - Buttrick Rd.	(miles)	(mph) 36 31 31 31 Speed (mph) 35 30 30 2.5	Volume (daily) 18379 21661 37042 22778 Estimated Volume (daily) 20929 24922 42087 26020 26020 Estimated Volume (daily) 20929	14703 14729 11113 VMT 16743 16947 12626 VMT	VOC g/mile 0.276 0.288 0.288 0.288 Emission VOC g/mile 0.198 0.209 0.209 1.633 Emission VOC g/mile 0.197	NOx g/mile 0.341 0.344 0.344 Total Factors NOx g/mile 0.177 0.18 0.18 Total Factors NOx g/mile 0.177	VOC kg/day 4.06 4.24 3.20 11.50 Emissi VOC kg/day 3.32 3.54 2.64 9.50 0.30 9.79 Emissi VOC kg/day	NOx kg/day 5.01 5.07 3.82 13.90 ions NOx kg/day 2.96 3.05 2.27 8.29 0.07 8.35

Sample Calculations

2026 Build VOC for NH 128 to Buttrick Rd Section

VMT = 0.80 miles * 20929 veh/day = 16743 veh-miles/day

VOC = (16743 veh-miles/day * 0.197 g/veh-mile)/(1000g/kg) = 3.30 kg/day

Delay for 2026 No-Build

Average Volume for project is the weighted average of the sections

Delay VOC = (26020 veh/day * 10 sec/veh * 1.633 g/mile * 2.5 mile/hr) / (3600 sec/hr * 1000 g/kg) = 0.30 kg/day

I-93 ITS CMAQ Project

Benefits from the Transportation Management Center (TMC) CMAQ project are related to the benefits for this project, but the benefits from the previous CMAQ project were only taken on the I-95 corridor. There is no double-counting benefits from the TMC CMAQ project and this project.

From FHWA Resource Center, AIR QUALITY TEAM
Off-Model Air Quality Analysis: A Compendium of Practice
http://www.fhwa.dot.gov/resourcecenter/teams/airquality/pubs2.cfm

The main goal of an Incident Management Program is to reduce congestion by removing vehicles which are debilitated, injured or just broke. Nonrecurring Congestion is the effect these vehicles have on the main line flow. Excess freeway emission are caused by this type of congestion. This analysis provides the basis for calculation of reduction of VOCs due to these programs; however, NOx can be analyzed in a similar

Since we do not have traffic model outputs for emissions, we take the link emissions:

Link emissions = link length * link AADT * emissions for average link speed.

Note: 4.9 Percent of Freeway Emissions are Caused by Nonrecurring Congestion.

Non-recurrent emissions = link emissions * 0.049

Project benefit = Non-recurrent emissions * effectiveness

Project Effectiveness = 50% for Incident Detection and Response, 25% for Motorist Assistance, and 15% for Surveillance.

<u>Use 90% effectiveness</u>

We use data from our Anchor Sections (GIS) layer to get AADTs on I-93. Assume average speed >= 60.7 mph

Emission factors provided by NH DES August 18, 2005 for use in Round 8 CMAQ Air Quality Analysis. All emission factors are in grams per mile.

Last updated May 23,2006 by Becky Ohler

Speed	VOC	NOx	Road	Year
60.7	0.602	1.588	Freeway	2007
60.7	0.501	1.275	Freeway	2009
60.7	0.26	0.477	Freeway	2017
60.7	0.183	0.233	Freeway	2026

I-93 VMTs and Non Recurrent emissions:

	2007 VOC	2007 NOx	2009 VOC	2009 NOx	2017 VOC	2017 NOx	2026 VOC	2026 NOx
HOOKSETT	11.27	29.72	9.57	24.34	5.38	9.86	4.14	5.27
LONDONDERRY	13.52	35.66	11.48	29.21	6.45	11.83	4.97	6.32
MANCHESTER	16.97	44.76	14.40	36.66	8.09	14.85	6.23	7.93
TOTAL	41.75	110.14	35.45	90.21	19.92	36.55	15.33	19.52

I-93 VMTs emissions benefit (= non-recurrent emissions * 0.9):

	2007 VOC	2007 NOx	2009 VOC	2009 NOx	2017 VOC	2017 NOx	2026 VOC	2026 NOx
HOOKSETT	10.14	26.75	8.61	21.91	4.84	8.88	3.72	4.74
LONDONDERRY	12.17	32.10	10.33	26.29	5.81	10.65	4.47	5.69
MANCHESTER	15.27	40.28	12.96	32.99	7.29	13.37	5.61	7.14
TOTAL	37.58	99.13	31.90	81.19	17.93	32.89	13.80	17.57

Appendix D
SEACOAST MPO and Salem-Plaistow-Windham MPO Report

Air Quality Conformity Analysis

SEACOAST NH SERIOUS NON-ATTAINMENT AREA

SOUTHERN NH SERIOUS NON-ATTAINMENT AREA (RPC PORTION)

MANCHESTER MARGINAL NON-ATTAINMENT AREA (SEACOAST MPO PORTION)

FOR:

- SEACOAST MPO 2007–2010 TRANSPORTATION IMPROVEMENT PROGRAM
- SEACOAST MPO 2007–2026 LONG RANGE PLAN
- SALEM-PLAISTOW-WINDHAM MPO 2007-2010 TRANSPORTATION
 IMPROVEMENT PROGRAM
- SALEM-PLAISTOW-WINDHAM MPO 2007-2026 LONG RANGE TRANSPORTATION PLAN

DRAFT FOR PUBLIC COMMENT

PREPARED BY:

ROCKINGHAM PLANNING COMMISSION 156 WATER STREET EXETER, NEW HAMPSHIRE 03833

TEL: (603) 778-0885 FAX: (603) 778-9183

E-MAIL: email@rpc-nh.org
WEB: www.rpc-nh.org

Strafford Regional Planning Commission 2 Ridge Street, Suite 4 Dover, New Hampshire 03820

TEL: (603) 742-2523 FAX: (603) 742-7986

E-MAIL: srpc@strafford.org
WEB: www.strafford.org

TABLE OF CONTENTS

Sections

II. PURPO III. EXISTI IV. Metho	DUCTION	4 9 10
FIGURES		
Figure 1: Figure 2: Figure 3:	Statewide 1-Hour Ozone Non-attainment Areas Towns & Ozone Standard Attainment Status Statewide 8-Hour Ozone Non-attainment Area	. 7
TABLES		
Table 1: Table 2: Table 3:	Manchester Marginal Non-Attainment Area Results	. 13
APPENDICE	<u>s</u>	
Appendix D-1		
Appendix D-2 Appendix D-3	· · · · · · · · · · · · · · · · · · ·	
Appendix D-3	1 ,	
Appendix D-5	i: Individual Off-Model Analysis Sheets	
Appendix D-6	: Mobile 6.2 (NH Vehicle & Age Mix) Emissions Factors	. 64



D-1

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan •Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

This page intentionally left blank

I. Introduction

This document has been prepared for the purpose of making a conformity determination on the amended 2005-2007 State Transportation Improvement Program (STIP), and to demonstrate that the emissions requirements for the Seacoast and Rockingham Planning Commission portion of the Southern NH non-attainment areas meet the new Environmental Protection Agency (EPA) 8-hour ozone non-attainment standards.

EPA issued the 8-hour ozone standard in July 1997, based on information demonstrating that the 1-hour standard was inadequate for protecting public health. Scientific information shows that ozone can affect human health at lower levels, and over longer exposure times than one hour.

On April 15, 2004 the EPA announced the 8-hour ozone designations, which had an effective date of June 15, 2004. Under the Clean Air Act, conformity determinations for metropolitan area transportation plans and TIPs must be made by June 15, 2005.

The 1990 Clean Air Act Amendments (CAAA) requires conformity determinations of Long Range Transportation Plans and Transportation Implementation Plans adopted by MPOs in areas that are in non-attainment for particular pollutants. Conformity determinations are also required in non-attainment areas for all transportation projects funded or approved under Title 23 of the Federal Transit Act. Conformity determinations are necessary to ensure that the transportation system we are planning for, as expressed in the TIP and PLAN, will not result in the worsening of air quality conditions, and in fact will contribute to reaching attainment in accordance with the State Implementation Plan (SIP).

The purpose of the air quality conformity analysis is to project future transportation trends and the resulting emissions. The primary tool for the analysis is the transportation model. The model forecasts emissions changes over time by incorporating transportation projects, such as building additional lanes on roads, signalizing intersections, or adding transit service, as well as projected population growth. Then information is coded into the model and a model run is done for specific analysis years. The results are then compared to the SIP emissions budget.

Under the final regulations of the 1990 CAAA of 1990, a regional transportation plan and the Transportation Improvement Program (TIP) are determined to be in conformity with the Clean Air Act if they meet the following requirements:

- 1. All the emissions in the future analysis years must be less than the budget for emissions established in the SIP. [Seacoast and Southern NH Serious Non-Attainment Areas]
- 2. For the marginal non-attainment area, the action scenario ("build") must generate lesser emissions than the base year, 2002 in this case. [Manchester Marginal Non-Attainment Area].

II. Purpose and Scope

Under the new 8-hour ozone non-attainment standards, four counties are wholly or partially included in the non-attainment area. The new 8-hour non-attainment area is smaller and contained within the previous 1-hour non-attainment area (shown in **Figure 1**). **Figure 3** shows the 8-hour non-attainment area (in hatch marks) overlaid on the 1-hour non-attainment. The new 8-hour non-attainment area is classified as a moderate and in the area, conformity must be demonstrated for volatile organic compounds (VOCs) and for nitrogen oxides (NOx). The most significant change for New Hampshire is the new 8-hour ozone designation created one non-attainment area for that state that includes 4 MPO areas making coordination and cooperation a must.

Currently the EPA and NHDES have not established an 8-hour emission budget for the new 8-hour non-attainment area. Therefore, as described in 40 CFR 93.109(e)(2)(ii) the region must calculate regional emissions and use budgets from the 1-hour SIP for the entire 1-hour area. If additional reductions, beyond those strategies in the SIP, are necessary to meet the emissions budget those reductions must come from within the 8-hour area. Therefore, the analysis for this conformity determination will follow the same methodology used to demonstrate conformity to the one-hour standard.

The Seacoast MPO includes communities in the Strafford Regional Planning Commission (SRPC) and a portion of the Rockingham Planning Commission (RPC) planning areas. Under the one-hour ozone standard the Seacoast MPO is part of two ozone non-attainment areas, The Seacoast and Southern NH Serious Non-Attainment Areas, and two communities in attainment as of July 1998. Figure 2 shows how the communities of the Seacoast MPO are categorized in terms of Ozone Non-Attainment Area.

The Salem-Plaistow-Windham MPO includes the remaining communities of the Rockingham Planning Commission. The Salem-Plaistow-Windham MPO entirely contained within the Southern New Hampshire Serious Non-Attainment Area. **Figure 2** shows how the communities of the Salem-Plaistow-Windham MPO are categorized in terms of Ozone Non-Attainment Area.

This air quality analysis was compiled from information in the Seacoast and Salem-Plaistow-Windham traffic model that was last revised in November 2004. The entire area covered in this report is now a modeled region. In order to compensate for traveled roadways not represented in the modeled network, correction factors have been derived by NHDOT. These factors are based upon the variation between model output and HPMS data for the area.¹

Projects included in the Plans/TIPs are either classified as "exempt" or "not-exempt". Projects are considered "exempt" if they fall under one or more of the defined exempt categories listed in **Appendix D-1** and are considered to have no impact on air emissions. **Appendix D-2** is a listing of "exempt" projects in the Seacoast and Southern NH (RPC Portion) MPO region.

Projects are considered "not-exempt" if they will have an impact on air quality (positive or negative). **Appendix D-3** lists all the Seacoast and Southern NH (RPC Portion) MPO region projects that are considered to be "not-exempt".

-

¹ This is calculated by dividing the 2002 HPMS based emissions by the 2002 modeled emissions results.

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

Conformity determinations are required for specified analysis years. Projects are either to be included in the transportation model or as an off-model analysis. The analysis year is based on the year in which the project is expected to be open for use. The model and off-model scenario results reflect the change in emissions if expected transportation projects are implemented and are compared to the budget. Analysis years are defined as follows:

2002	Base Year
2007	Analysis Year 1
2009	Analysis Year 2
2017	Analysis Year 3
2026	Analysis Year 4

Figure 1

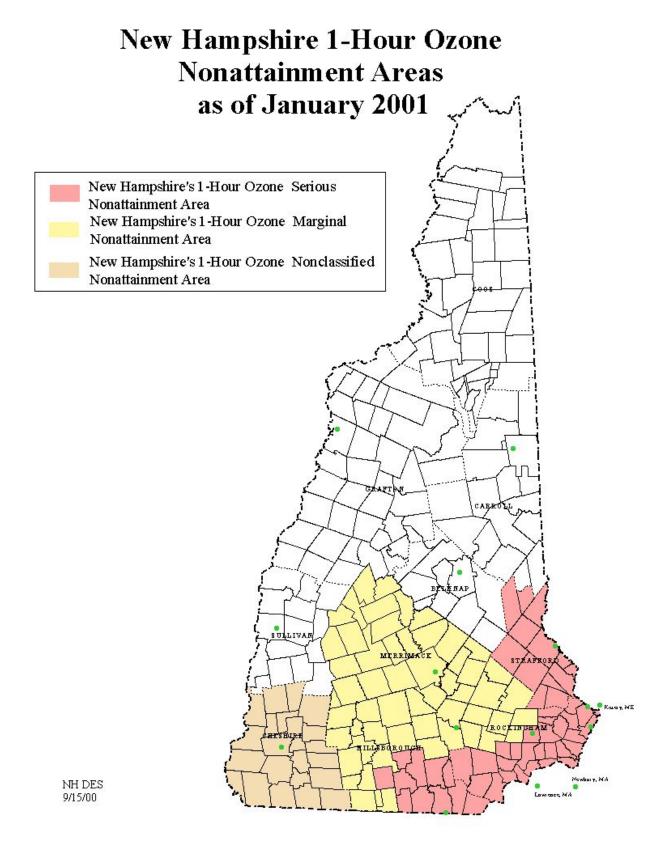


Figure 2 Seacoast and Southern NH (RPC Portion) MPO Communities Listed According To Ozone Non-Attainment Area

SEACOAST Serious Non-Attainment Area

SRPC	
_ Dover*	Milton
Durham*	New Durham
Lee	Strafford
Madbury	
Newmarket*	
Rochester*	
Rollinsford*	
Somersworth*	
Barrington	
Farmington	
Middleton	
	Dover* Durham* Lee Madbury Newmarket* Rochester* Rollinsford* Somersworth* Barrington Farmington

SOUTHERN NEW HAMPSHIRE (RPC Portion) Serious Non-Attainment Area

Seacoast MPO	Salem-Plaistow	/-Windham MPO
Brentwood*	Atkinson*	Plaistow*
East Kingston*	Danville*	Salem*
Hampton Falls*	Hampstead*	Windham*
Kensington*	Kingston*	
Seabrook*	Newton*	
South Hampton*		

MANCHESTER Marginal Non-Attainment Area

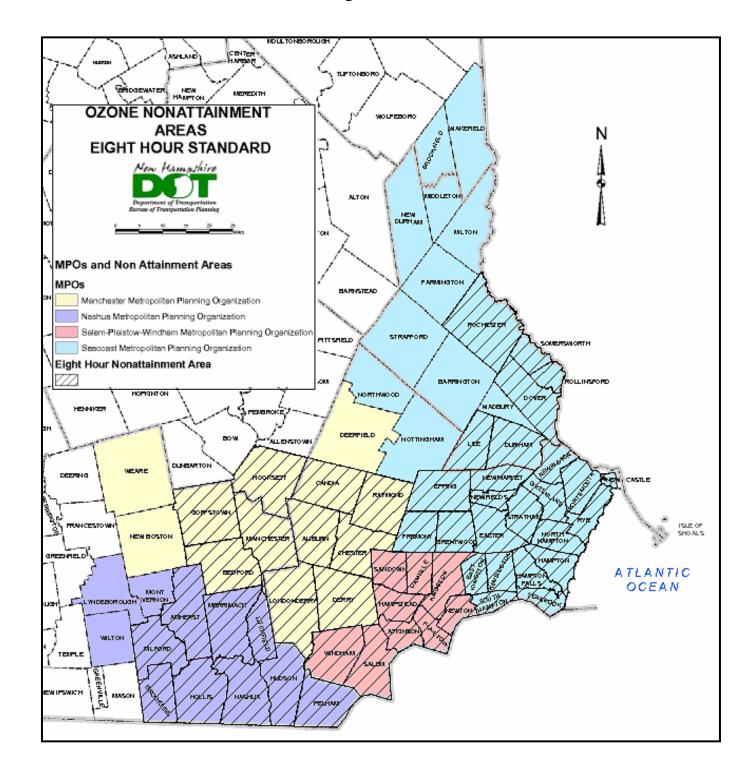
RPC: SRPC: SRPC: Northwood Fremont* Nottingham

CARROLL County Attainment Area - not included in Analysis

SRPC: Brookfield Wakefield

^{*} Designates community <u>within the new 8-hour non-attainment</u> area boundary. The 8 hour non-attainment area boundary is shown in Figure 3.

Figure 3



•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

III. NHDOT Conformity Analysis Procedures

The conformity tests required in the Federal rule must be demonstrated for the respective pollutants in each non-attainment area in its entirety. As shown on **Figure 3**, the boundaries of the MPO areas and the one-hour non-attainment areas do not match. Portions of some MPOs can be found in several non-attainment areas and vice versa. In addition, the 8-hour non-attainment area is wholly contained within the one-hour boundary but also overlaps four MPO areas.

For these reasons, NHDOT has prepared a document entitled "Conformity Determinations for Transportation Improvement Programs, Transportation Plans, and regional emissions analysis of transportation projects in New Hampshire's Non-attainment Areas", which combines analyses for the entire non-attainment area. NHDOT performed the regional emissions analysis for Non-Attainment Areas outside of MPO boundaries to demonstrate that proposed projects in the 2005-2007 State Transportation Improvement Program (STIP) are in conformity with the SIP.

In the absence of an 8-hour emission budget for the new 8-hour non-attainment area the region must calculate regional emissions and use budgets from the 1-hour SIP for the entire 1-hour area. If additional emission reductions, beyond those strategies in the SIP, are necessary to meet the budget, those reductions must come from within the 8-hour area.

Under DES Administrative Rule Env-A 1500 regarding transportation conformity, NHDOT must schedule and convene regular consultation meetings related to the transportation conformity. The MPOs or NH Department of Environmental Services (NHDES) may request that NHDOT schedule a meeting at any time. Regular consultation meetings shall include discussion of activities including, but not limited to:

- 1) Development of a transportation plan or TIP and any determination of conformity on transportation plans and TIPs, and
- 2) Emissions analysis for transportation activities, which cross the borders of MPOs or non-attainment areas.

When preliminary conformity findings become available, NHDOT or the MPOs shall provide them to NHDES. The MPOs shall send copies of transportation plans and TIPs that have received a final conformity determination by the MPO to NHDOT and NHDES. NHDOT shall provide copies of these documents to FHWA and FTA for conformity findings. Any final regional emissions analysis for projects outside MPO areas shall be provided to the MPOs and the division by NHDOT. Copies of final conformity determinations for each individual project subject to conformity shall be maintained in NHDOT offices and made available for public inspection.

Projects that are considered regionally significant for purposes of regional emissions analysis shall include any transportation project that is not required to be included in the MPO transportation plan, TIP or STIP, that is not considered exempt according to the federal transportation conformity rule, and which is expected to have a regionally significant impact on travel patterns.

This Submission includes only action runs for 2007, 2009, 2017 and 2025.

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

IV. Methodology For Seacoast And Southern NH (RPC Portion) MPO Air Quality Conformity Analysis

- 1. Compile the list of projects and classify each as either "exempt" or "not-exempt" from the following sources:
 - a. MPO Plans and TIP and State of New Hampshire Ten Year Program
 - b. Regionally significant projects
 - c. NHDOT list of regionally significant projects
 - d. Other necessary transportation projects
- 2. Determine the year of implementation for each project.
- 3. Determine whether or not individual projects can be modeled.
- 4. Code changes into the model network for each 'model run' year.
- 5. Run the model for the necessary years, including the base year and the analysis years.
- 6. Isolate road segments by non-attainment area.
- 7. Calculate total emissions using road segment characteristics (speed, length) and emission factors as provided by NHDES based on EPA's Mobile 6.2 model.
- 8. Analyze individual off-model projects to calculate emissions changes.
- 9. Analyze statewide off-model projects and calculate emissions changes.
- 10. Compile results of modeled, off-model and statewide projects into standardized tables of emissions. Show results by analysis year and non-attainment area.

V. Air Quality Conformity Analysis Results

Tables 1-3 present the summary of emissions by analysis year for the modeled portion of Seacoast and Southern NH non-attainment area as well as the Manchester Marginal Non-Attainment area within the Seacoast MPO. These tables show the modeling results, off-model adjustments to those results, as well as any adjustments made to the emissions output or budget. **Tables 2 & 3** detail the off model results by project and analysis years. **Appendix D-4** goes into further detail and contains individual analysis sheets (with analysis year results) for all projects in Tables 2 & 3.

Manchester Marginal Non-Attainment Area (Seacoast MPO Portion)

This Non-Attainment area is comprised of three different MPO's, and a portion of the area is not modeled and is outside of MPO boundaries. As a designated "Marginal" area, the Manchester Non-Attainment Area must meet a slightly different emissions test than the Serious Non-Attainment areas of the Seacoast and Southern New Hampshire. This emissions test states that the emissions in a given analysis year must be less than Base Year levels. In addition, because a budget has not been set for the 8 Hour Ozone Standard, this region must meet a "Build vs. No-Build" test where emissions in the build condition must be lower than in the no-build. Given that the Non-Attainment area crosses multiple MPO boundaries, it is the responsibility of the State of New Hampshire Department of Transportation to make the determination of conformity for the Manchester Marginal Non-Attainment area as a whole. It is the responsibility of each MPO to determine the modeled results for its portion of the non-attainment area and check their validity. The Base Year emissions and estimated emissions for the Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) are shown in **Table 1** below.

Table 1: Seacoast MPO Portion of Manchester Marginal Non-Attainment Area

Analysis Year	Weekday VMT	VOC (kgs/day)	NOx (kgs/day)
2002 Emissions - Tota	I Area	24,194.00	36,047.00
2002 Emissions - Sead	coast MPO Portion	900.00	1,701.00
2007	884,444	573	1087
2009	910,394	488	897
2017	990,321	271	372
2026	1,090,692	214	209

Given the information shown in **Table 1** above and preliminary analysis provided by NHDOT, the Transportation Conformity requirements for the Manchester Marginal Non-Attainment area have been met, as the emissions for each analysis year tested are less than those of 2002.

Seacoast Serious Non-Attainment Area

Table 2 shows that the emissions budgets have been met for the Seacoast Non-Attainment area in analysis years 2007, 2009, 2017, and 2026, meaning that the MPO is in conformity with the SIP for those years.

Southern NH Serious Non-Attainment Area

As the emissions budget for the Southern New Hampshire Serious Non-Attainment Area is not suballocated to the various entities (MPOs and Planning Commissions) within it, the Rockingham Planning Commission portion of the emissions budget is unknown. Given that the Non-Attainment area crosses multiple MPO boundaries, it is the responsibility of the State of New Hampshire

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

Department of Transportation to make the determination of conformity for the Southern New Hampshire Non-Attainment area as a whole. It is the responsibility of each MPO to determine the modeled results for its portion of the non-attainment area and check their validity. The budget for the Southern NH Non-Attainment Area is shown in **Table 3** as well as the estimated emissions for the Rockingham Planning Commission portion of that non-attainment area. The Rockingham Planning Commission portion includes all of the communities of the Salem-Plaistow-Windham MPO as well as a number of the southern communities of the Seacoast MPO.

The modeled emissions estimates listed include off-model emissions adjustments, but do not include adjustments to rectify model outputs with HPMS emissions inventory figures. The HPMS adjustments to the emissions total will occur at the overall Non-Attainment area level [adjustments completed by NHDOT]. Given the information available, the Transportation Conformity requirements for the Southern NH Non-Attainment area have been met, and the emissions are in conformity with the budgets established in the State Implementation Plan (SIP).

TABLE 2: SEACOAST NON-ATTAINMENT AREA AQ SUMMARY



				2007			2009		2017			2026		
PROJ NUMBER	PROJECT	Year Progrmd	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx
94-33CM	PEASE TMA	1995/2002	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAK	KEN
96-15CM (12660)	COAST Fleet Replacement	1999	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAK	KEN
98-06 (13126)	COAST Pulse Service	2002/2004	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN		CREDIT TAK	
98-15CM (13129)	Dover Arena Park and Ride	2001	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAK	KEN
00-05CM (13509)	Dover Downtown Transit Loop	2003	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAK	KEN
00-06CM (13510)	UNH Purchase 6-15 Passenger CNG Vans (includes O2-10CM benefits)	2003	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAK	KEN
00-07CM (13511)	UNH - Purchase mixed fleet to supportWildcat Transit System	2004	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAP	KEN
02-07CM (13867)	Durham - Main St Reconstruction, pedestrian & Transit improvements	2006	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAK	KEN
02-10CM (13870)	CNG Station (benefits included under 00- 06CM)	2005	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAP	KEN
02-13CM (13871) & 02-08CM(13868)	Supplemental Parking at Exeter & Durham Train Stations, and Durham/UNH Rail Platform Expansion	2006	3,279	1.630	1.680	3,279	1.660	1.780	3,279	0.790	0.710	3,279	0.550	0.450
94-12TE, 10025A (EXETER), 10023D(DOVER)*	Portland to Boston Passenger Rail Service (Regionally Significant Project)	2002	15,806	8.450	-9.410	16,355	7.060	-10.250	18,931	3.940	-7.610	21,891	3.060	-8.780
02-29CM(13880)	COAST Spaulding Turnpike Express Service	2006	5,534	4.087	-2.390	6,391	3.822	-1.830	9,970	2.757	0.044	13,396	2.635	1.000
02-32CM (13882)	DES DIESEL OPACITY PROJECT		NO	CREDIT TA	KEN	NO CREDIT TAKEN		NO CREDIT TAKEN				CREDIT TAK		
02-33CM (13883)	AIR QUALITY ACTION DAYS	2002	NO	CREDIT TA	KEN	NO CREDIT TAKEN		NO CREDIT TAKEN		NO CREDIT TAKEN		KEN		
DOT	Commuter Choice Program		NO	CREDIT TA	KEN	NO CREDIT TAKEN		KEN	NO CREDIT TAKEN			NO CREDIT TAKEN		
Regionally Significant	UNH Campus Shuttle		NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO CREDIT TAKEN		
98-10CM (13122)	ETC IMPLEMENTATION	2004/05	NOW IN	ICLUDED IN	MODEL	NOW IN	ICLUDED IN	MODEL	NOW IN	ICLUDED IN	MODEL	NOW IN	ICLUDED IN	MODEL
11151Z	I-95 & Spaulding Tpk Incident Management System (Part of Statewide RATIS/ITS project)	2004/05	0	10.730	23.020	0	9.030	18.680	0	4.780	7.310	0	3.180	3.630
04-13CM	Wildcat Transit Fleet Replacement Phase III - Purchase 3 CNG/ULSD buses	2007	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAI	KEN	NO CREDIT TAKEN		
14287 (04-32CM)	Dover Park & Ride @ Exit 9	2006	Included in CO	DAST Expres	s Analysis at	lysis above								
04-16CM	Market Street Extension bike/ped path between Michael Succi Drive and NH Port Authority in Portsmouth	2007	NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TAP	KEN
04-17CM (11151E)	Greater Portsmouth TMA Marketing	2006	NO CREDIT TAKEN		NO	CREDIT TA	KFN	NO	CREDIT TAI	KFN	NO	CREDIT TAK	KFN	
14265, 04-34CM	Statewide Emergency Management Center	2006		CREDIT TA			CREDIT TA			CREDIT TAI			CREDIT TAP	
04-05CM	DES Alternative Fuels Vehicle Program	2006-2008	NO	CREDIT TA	KEN	NO CREDIT TAKEN		KEN	NO CREDIT TAKEN			NO CREDIT TAKEN		
04-31CM	I-95 ITS Deployment (SEE 11151Z Above)	2006	NO	NO CREDIT TAKEN		NO CREDIT TAKEN		NO CREDIT TAKEN			NO CREDIT TAKEN			
	TOTAL OFF-MODEL SAVINGS		24,619	24.897	12.900	26,025	21.572	8.380	32,180	12.267	0.454	38,566	9.425	-3.701

VMT = Vehicle Miles of Travel/ Day VOC = Volatile Organic Compounds (kg/day) NOx = Nitrogen Oxides (kg/day)



SEACOAST SERIOUS NON-ATTAINMENT AREA EMISSIONS SUMMARY

		2007			2009			2017			2026	
	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx
BUDGET		6323	12410		6323	12410		6323	12410		6323	12410
MODEL OUTPUT (MOBILE 6.2-NHDOT Vehicle & Fleet Age mix)	8,886,791	5851.0	10996.0	9,062,629	4926.0	8973.0	9,805,124	2701.0	3698.0	10,507,358	2068.0	2015.0
SUBTRACT OFF-MODEL ADJUSTMENTS	24,619	24.897	12.900	26,025	21.572	8.380	32,180	12.267	0.454	38566	9.425	(3.701)
TOTAL EMISSIONS OUTPUT	8,862,172	5826.1	10983.1	9,036,604	4904.4	8964.6	9,772,944	2688.7	3697.5	10,468,792	2058.6	2018.7
HPMS ADJUSTMENT FACTOR												
SUBTRACT HPMS ADJUSTMENT	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
ADJUSTED OUTPUT	8,862,172	5826.1	10983.1	9,036,604	4904.4	8964.6	9,772,944	2688.7	3697.5	10,468,792	2058.6	2018.7
AMOUNT (OVER) UNDER BUDGET IN KG		496.9	1426.9		1418.6	3445.4		3634.3	8712.5		4264.4	10391.3
% (OVER) UNDER BUDGET		7.86%	11.50%					57.48%	70.21%		67.44%	83.73%

2002 EMISSIONS (BASELINE)

VMT	VOC	NOx
7,701,662	8,551	16,163

^{*} Downeaster Project analysis includes benefits of proposed CMAQ project to add sidings to facilitate a 5th train per day during commute hours.

TABLE 3: AQ SUMMARY FOR SEA AND SPW MPO PORTION OF SOUTHERN NH NON-ATTAINMENT AREA

		Year		2007			2009			2017		2026		
PROJ NUMBER	PROJECT	Programmed	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx
98-02CM (13121)	CLEAN DRIVING CAMPAIGN (All of Southern NH Non-Attainment Area)		NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TA	KEN	NO CREDIT TAKEN		
96-03CM (12654)	Intercity Bus Purchase (All of Southern NH Non-attainment Area)			CREDIT TA			CREDIT TAI			CREDIT TA			CREDIT TA	
96-02CM (12655)	Alternative Transportation Marketing		NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN
96-06 (12658)	DES Statewide Educational Unit		NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN
02-33CM (13883)	AIR QUALITY ACTION DAYS		NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN
	Salem, Windham, Londonderry Park & Rides & bus service		INCLUDED IN 10418L, 04-33CM		INCLUDED IN 10418L, 04-33CM		INCLUDE	INCLUDED IN 10418L, 04-33CM		INCLUDE	D IN 10418I	L, 04-33CM		
10418R	Salem Adaptive Signal Controls - Integrated with I-93 ITS and will include Pelham Rd. and NH 28 Signal Coordination benefits		NO	CREDIT TA	KEN	0	10.5	4.4	0	6.24	2.13	0.00	3.34	0.77
00-31CM	MVRTA Ballardvale Service from Londonderry/Windham to Andover/ Wilmington, MA		NO	CREDIT TA	KEN	NO	CREDIT TAI	KEN	NO	CREDIT TA	KEN	NO	CREDIT TA	KEN
04-20CM	SE-TRIP - TMA, Derry-Salem Bus Service, Pedestrian Improvements	2006		1.330	-0.720		1.160	-0.630		0.5700	-0.2100		0.460	0.260
10418L, 04-33CM	I-93 Expanded Bus Service + P&R Construction at Exits 2, 4, 5	2006	19,748	13.590	3.140	19,865	11.140	1.990	20,041	5.2500	0.8700	20,041	3.700	1.410
10418Z	I-93 Incident Management System (10418Z)	2006	0	33.300	59.060	0	26.350	47.490	0	14.3700	19.7100	0	10.930	10.390
11151Z	I-95 Incident Management System (Southern NF Portion)	2005	0	2.880	6.190	0	2.430	5.020	0	1.2800	1.9600	0	0.860	0.970
	TOTAL SAVINGS		19,748	51.100	67.670	19,865	51.620	58.280	20,041	27.710	24.460	20,041	19.290	13.800

SOUTHERN NH SERIOUS NON-ATTAINMENT AREA (ROCKINGHAM PLANNING COMMISSION PORTION) EMISSIONS SUMMARY

	2007			2009			2017			2026		
	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx	VMT	voc	NOx
MODEL OUTPUT (MOBILE 6.2-NH Vehicle and Fleet Age mix)	4,497,998	3100.0	5475.0	4,591,963	2,591.0	4,553.0	4,876,692	1399.0	1859.0	5,211,720	1084.0	1015.0
SUBTRACT OFF-MODEL ADJUSTMENTS	19,748	51.100	67.670	19,865	51.620	58.280	20,041	27.710	24.460	20,041	19.290	13.800
TOTAL EMISSIONS OUTPUT	4,478,250	3048.9	5407.3	4,572,098	2539.4	4494.7	4,856,651	1371.3	1834.5	5,191,679	1064.7	1001.2

D - 15

 VMT
 VOC
 NOx

 2002 EMISSIONS (BASELINE)
 3,866,277
 4,361
 8,118



Oxidos (ka/day)

APPENDIX D-1: EXEMPT CODE LIST

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

PROJECTS EXEMPT FROM CONFORMITY

SAFETY

- E-1 Railroad/highway crossing.
- E-2 Hazard elimination program.
- E-3 Safer non-Federal Aid system roads.
- E-4 Shoulder improvements.
- E-5 Increasing sight distance.
- E-6 Safety improvement program.
- E-7 Traffic control devices and operating assistance other than signalization projects.
- E-8 Railroad/highway crossing warning devices.
- E-9 Guardrails, median barriers, crash cushions.
- E-10 Pavement resurfacing and/or rehabilitation.
- E-11 Pavement marking demonstration.
- E-12 Emergency relief (23 U.S.C. 125).
- E-13 Fencing.
- E-14 Skid treatments.
- E-15 Safety roadside rest areas.
- E-16 Adding medians.
- E-17 Truck climbing lanes outside the urbanized area.
- E-18 Lighting improvements.
- E-19 Widening narrow pavements or reconstructing bridges (no additional travel lanes).
- E-20 Emergency truck pullovers.

MASS TRANSIT

- E-21 Operating assistance to transit agencies.
- E-22 Purchase of support vehicles.
- E-23 Rehabilitation of transit vehicles.{1}
- E-24 Purchase of office, shop, and operating equipment for existing facilities.
- E-25 Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)
- E-26 Construction or renovation of power, signal, communications systems.
- E-27 Construction of small passenger shelters and information kiosks.
- E-28 Construction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures).
- E-29 Rehabilitation or reconstruction of track structures, track, and track bed in existing rights-of-way.
- E-30 Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet {1}
- E-31 Construction of new bus or rail storage/maintenance facilities categorically excluded in 23 CFR part 771.

AIR QUALITY

- E-32 Continuation of ride-sharing and van-pooling promotion activities at current levels.
- E-33 Bicycle and pedestrian facilities.

OTHER

Specific activities which do not involve or lead directly to construction, such as:

- E-34 Planning and technical studies.
- E-35 Grants for training and research programs.
- E-36 Planning activities conducted pursuant to titles 23 and 49 U.S.C.
- E-37 Federal-aid systems revisions.
- E-38 Engineering to assess social, economic, and environmental effects of the proposed action to alternatives to that action.
- E-39 Noise attenuation.

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs

8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

- E-40 Advance land acquisitions (23 CFR part 712 or 23 CFR part 771).
- E-41 Acquisition of scenic easements.
- E-42 Plantings, landscaping, etc.
- E-43 Sign removal.
- E-44 Directional and informational signs.
- E-45 Transportation enhancement activities (except rehabilitation and operation of historic transportation buildings, structures or facilities).
- E-46 Repair of damage caused by natural disasters, civil unrest, or terrorist acts, exempt projects involving substantial functional, locational or capacity changes.
- ATT. Project is located in attainment area and, therefore, not subject to conformity.

PROJECTS EXEMPT FROM REGIONAL EMISSIONS ANALYSES

- E-51 Intersection channelization projects.
- E-52 Intersection signalization projects at individual intersections.
- E-53 Interchange reconfiguration projects.
- E-54 Changes in vertical and horizontal alignment.
- E-55 Truck size and weight inspection stations.
- E-56 Bus terminals and transfer points.

OTHER EXEMPT CODES

N/E Project is not exempt

{1} PM10 nonattainment or maintenance areas, such projects are exempt only if they are in compliance with control measures in the applicable implementation plan.

APPENDIX D-2: EXEMPT PROJECTS LIST

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

Town	Project #	Scope of Work	CAACode
Atkinson - Hampstead		Reconstruct From Central Street In Hampstead To The Southern Most Atkinson / Hampstead Town Line (3.2 Miles)	E-10
Coast		General & Comprehensive Planning	E-36
		Misc. Bus Station Equipment	E-28
		Misc. Support Equipment	E-24
Danville	13535	Replace Bridge Over Exeter River - 047/126	E-19
Dover	12644		
		Construct 3500' Sidewalk From Weeks Crossing To Long Hill Road [96-28TE]	E-33
	13042	Replace Bridge Over B&M Railroad - 109/106	E-19
	13089	Construct New Sidewalk (2000') In High Density Residential / Employment	F 00
	40.400	Center Area To Complete Previously Approved Project [98-14TE]	E-33
	13482	Construct Bike Path Along Rail Line From Rail Station To NH 108 / Bellamy Park	F 22
	12706	[00-20TE] Bridge Rehabilitation Over B&M Railroad - 120/118	E-33 E-19
	13796	Bridge Replacement Over Cocheco River - 136/123 (future)	E-19 E-19
	13945 14321	Install Street Lighting At Exit 7 Interchange; Force Account With Public Service	L-18
		Co Of NH	E-18
	14344	Repair 50 Pole Lights On Bridge Over Bellamy River - 174/034, Applying Locktite	
		And Locking Washers To The Ballasts And Sockets	E-18
Dover -	12608		
Somersworth	12000	Add Left Turn Lane At Long Hill Road	E-51
Durham		Interchange Improvements And Reconfiguration Including The Installation Of	E 50
	04-13TE	Traffic Signals, Dedicated Turning Lanes, Signage, Etc Phase 2 NH 155a Main Street Improvements - Construct Sidewalks, Multi-use Paths &	E-53
	04-131E	Bicycle Shoulders Along NH 155a For Approximately 1.1 Miles Approaching The	
		Unh Campus And Downtown Durham [04-13TE]	E-33
	04-15TE		L-33
	04 1312	UNH Rail Station renovation - renovate thehistoric elements of the Durham rail station and related elements. Restore the signal semaphore located atop the station. Limited restoration of slate roof finials and support structure. Rebuild 2 existing wood wheeled luggage carts. Develop and install exterior information displays regarding the history of rail service to Durham [04-15TE]	E-28
			1
Durham - Newmarket	13080	Construct 4' Bike Shoulders From Oyster River Bridge To Dame Road And Sanborn Ave In Newmarket (3.4mi) [98-17TE]	E-33
Epping	13712	Reconstruction From Brentwood T/L North To NH 87	E-6
Engam	12226	Rehabilitation & Safety Work, Beginning At NH 107, Proceeding East	1
Epsom - Northwood	13336	Approximately 7.5 Miles To Ridge Road - [federal Resurfacing / Crackseal	
Notthwood		Program]	E-10
		ji rogramj	L-10
Exeter	13092	Construct Bike Shoulders [98-02TE]	E-33
		Implementation Of Access Management Plan Developed By Exeter To Likely	
		Include Row Acquisitions And Driveway Consolidation	E-6
	14090A	Bridge Replacement Over B&M Railroad - 088/076	E-19
Farmington	14129	Bridge Rehabilitation Over Cocheco River - 121/141 [emergency Repair]	E-19
Greenland		Intersection Improvements @ Ocean Road, Adding Additional Turning And Through Lanes	E-51
	1	, , , , , , , , , , , , , , , , , , , 	

Town	Project #	Scope of Work	CAACode
Hampton	13891	Phase 3 Of North Hampton, Hampton And Exeter Regional Bike Loop: Construct 4' Shoulders And Pavement Markings From Us 1 Along High Street, Towle Avenue, And Winnacunnet Road To NH 1a [02-23TE]	E-33
	14188	Bridge Rehabilitation Replacing Deck And Fender System Over Hampton River - 235/025	E-19
	14281	Hampton Toll Plaza, 2004 Second Year One-way Toll Test, Southbound Toll Test	E-34
	13676B	Removal Of Lead Paint & Complete Repainting Of Bascule Span Of Hampton River Bridge - 235/025	E-19
	13930A	Bridge Rehabilitation Over B&M RR - 162/142	E-19
Hampton - Portsmouth - Dover - Rochester	14147	Resurfacing For Sfy 2005 And Overhead Sign Structure Replacement	E-10
Rochester			E-10
Kensington	13908	Kensington Town Center Enhancements: Landscaping, Stone Wall, And Bike/pedestrian Improvements To Parking Lot In Town Center [02-30TE]	E-45
Kingston	14046	Traffic Signal Upgrades & Minor Reconstruction @ Intersection With NH 111 / Main Street And The Intersection With NH 107 / Scotland Road	E-52
Lee	14063	Construct Left Turn Lane To Complete Safety Improvement Intersection @ NH 155a - Phase 2	E-6
		Relocation & Signalization @ High Street	ATT
Madbury	12922	Replace Bridge Over B & M Railroad - 114/084	E-19
	04-31TE	Center/civic District Multi-use Paths - Construct Bike/ped Paths. Paths In Approximately 1/2 Mile Town Square, Town Center/civic District Bounded On The South By NH155 And On The North By Town Hall Road. Approx. 3/4 Of A Mile Of Asphalt Or Other Natural	E-33
Metro Planning	5303-MP-		
	3	Salem - Plaistow - Windham Metropolitan Planning Organization Transit Planning	E-36
	5303-MP- 4	Seacoast Metropolitan Planning Organization Transit Planning	E-36
Milton	14077	Reconstruct Crossing, Roadway & Upgrade Signals @ NH Northcoast, USDOT-AAR #054-232P	E-1
Milton, Nh - Lebanon, Me	13748	Bridge Replacement Over Salmon Falls River - 198/131	E-19
New Castle -			
Portsmouth		Bridge Painting Over Piscataqua Estuary - 031/142 & 241/053	E-19
New Castle - Rye		Rehabilitate Single Leaf Bascule Moveable Bridge Over Little Harbor - 066/071	E-19
Newington	14064	Reconstruct & Improve Nimble Hill Road	E-10
Newmarket	13499 14026	Reconstruct Main Street To Improve Pedestrian Facilities [00-73TE] Paint Bridge Over Lamprey River - 127/097	E-33 E-19
North Hampton			
		Construct Shoulder From I-95 To Us 1 [00-77TE]	E-33

Northwood	Town	Project #	Scope of Work	CAACode
Nottingham		_		
Nottingham		10429E		
Safety Improvements Including The Construction Of Eastbound Passing Lane E-19 13795 Bridge Replacement Over North River - 204/082 E-19 14240 Bridge Replacement Over North River - 145/145 E-19 Plaistow 13803 Widening For Center Turn Lanes From The Massachusetts S/L To Westville Bridge Painting: Portion of Painting Painting: P95 SB Over P95 Wb Off-ramp - 198/123; P95 SB On-ramp Over P95 NB - 183/121 13863 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 194/124; P95 SB On-ramp Over P95 NB - 183/121 13863 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13864 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13864 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13865 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13864 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13865 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13866 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13867 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13868 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/125 E-19 1493 Piscataqua River Paralleling Bow Street (02-53TE) E-19 1493 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Off Grand Total [S1,100,000] Will Be 60/50 Match) E	Nottingham		Intersection Safety Improvement @ NH 152	E-51
Safety Improvements Including The Construction Of Eastbound Passing Lane E-19 13795 Bridge Replacement Over North River - 204/082 E-19 14240 Bridge Replacement Over North River - 145/145 E-19 Plaistow 13803 Widening For Center Turn Lanes From The Massachusetts S/L To Westville Bridge Painting: Portion of Painting Painting: P95 SB Over P95 Wb Off-ramp - 198/123; P95 SB On-ramp Over P95 NB - 183/121 13863 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 194/124; P95 SB On-ramp Over P95 NB - 183/121 13863 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13864 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13864 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13865 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13864 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13865 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13866 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13867 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/121 13868 Bridge Painting: P95 SB Over P95 Wb Off-ramp - 191/131; P95 SB On-ramp Over P95 NB - 183/125 E-19 1493 Piscataqua River Paralleling Bow Street (02-53TE) E-19 1493 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Off Grand Total [S1,100,000] Will Be 60/50 Match) E	Nottingham	11140		
13795 Bridge Replacement Over Little River - 204/082 E-19	Hottingnam	11110	Safety Improvements Including The Construction Of Eastbound Passing Lane	E-6
Plaistow		13795		
Plaistow				
Plaistow				
Portsmouth Alkinson	Plaistow	13803		F = 4
Portsmouth			Bridge	E-51
Portsmouth	Plaistow -	12359		
Portsmouth	Atkinson		Replace Bridge Over Little River & B&M RR - 105/028	E-19
12329 Reconstruct From Middle Street To Pleasant Street [phase I] E-10 12575 Reconstruct Crossing & Signals @ B&M RR USDOT-AAR #054-125A E-8 12683 Create Safe Bicycle Route From Downtown Portsmouth To Bike / Ped Bridge Into Pease International Tradeport [96-17TE] E-33 12900 Reconstruct From Traffic Circle North To Sarah Long Bridge Including Bridges 211/114, 227/112, & 205/116 I3523 Reconstruction Of New Castle Ave (nh 1b) From Marcy Street To Bridge Over Piscataqua River Inlet I3862 Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 I3863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 I3864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19 I3903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] E-33 I4193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Reconstruct From Wilson Road To Constitution Ave E-10 Revenue NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 I3679 Paint Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 I3679 Paint Bridge Over Piscataqua River - 247/084 Installation				1=
12575 Reconstruct Crossing & Signals @ B&M RR USDOT-AAR #054-125A E-8 12683 Create Safe Bicycle Route From Downtown Portsmouth To Bike / Ped Bridge Into Pease International Tradeport [96-17TE] E-33 12900 Reconstruct From Traffic Circle North To Sarah Long Bridge Including Bridges 211/114, 227/112, & 205/116 E-19 13523 Reconstruction Of New Castle Ave (nh 1b) From Marcy Street To Bridge Over Piscataqua River Inlet E-10 13862 Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 E-19 13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 E-19 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] E-33 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements E-51 Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-19 Reconstruct From Wilson Road To Constitution Ave E-10 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Portsmouth Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 Relabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 Relabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 Relabilitate Bridge Over Piscataqua River - 247/084 Relab	Portsmouth			
12683 Create Safe Bicycle Route From Downtown Portsmouth To Bike / Ped Bridge Into Pease International Tradeport [96-17TE] E-33 12900 Reconstruct From Traffic Circle North To Sarah Long Bridge Including Bridges 211/114, 227/112, & 205/116 E-19 13523 Reconstruction Of New Castle Ave (nh 1b) From Marcy Street To Bridge Over Piscataqua River Inlet E-10 13862 Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 E-19 13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 E-19 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] E-33 14193 Reconstruct & Reclassify As A City Street (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements E-51 Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-19 Reconstruct From Willson Road To Constitution Ave E-10 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Portsmouth				
Into Pease International Tradeport [96-17TE] E-33 12900 Reconstruct From Traffic Circle North To Sarah Long Bridge Including Bridges 211/114, 227/112, & 205/116 E-19 13523 Reconstruction Of New Castle Ave (nh 1b) From Marcy Street To Bridge Over Piscataqua River Inlet E-10 13862 Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 I3863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 E-19 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] E-33 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements E-51 Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-10 Reconstruct From Wilson Road To Constitution Ave E-10 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Portsmouth - Rochester Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 Reference Markers E-44 Reference Markers E-44 Reference Markers E-45 Refe				E-8
12900 Reconstruct From Traffic Circle North To Sarah Long Bridge Including Bridges 211/1/14, 227/1/12, & 205/1/6 E-19 13523 Reconstruction Of New Castle Ave (nh 1b) From Marcy Street To Bridge Over Piscataqua River Inlet E-10 13862 Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 E-19 13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 E-19 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19 13903 Piscataqua River Paralleling Bow Street [02-53TE] E-33 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,20,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements E-51 Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-19 Reconstruct From Wilson Road To Constitution Ave Road Roadway Improvements E-10 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Portsmouth - Rochester Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19		12683		E 22
211/114, 227/112, & 205/116 E-19 13523 Reconstruction Of New Castle Ave (nh 1b) From Marcy Street To Bridge Over Piscataqua River Inlet E-10 13862 Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 E-19 13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 Wb - 183/121 E-19 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] E-33 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements E-51 Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-19 Reconstruct From Wilson Road To Constitution Ave E-10 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Portsmouth - Rochester Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19		12000	Reconstruct From Traffic Circle North To Sarah Long Bridge Including Bridges	E-33
13523 Reconstruction Of New Castle Ave (nh 1b) From Marcy Street To Bridge Over Piscataqua River Inlet E-10		12900		F-10
Piscataqua River Inlet Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) Interschange Improvements @ Market Street [E-53] Intersection @ Constitution Ave And Roadway Improvements Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-19 Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester 14232 Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19		13523		L-13
13862 Bridge Painting: I-95 SB Over Spaulding Tpk - 198/123; I-95 NB Over Spaulding Tpk - 197/122 E-19 13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 E-19 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] E-33 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements E-51 Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-19 Reconstruct From Wilson Road To Constitution Ave E-10 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Portsmouth - Rochester Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083		10020		F-10
Tpk - 197/122 13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 Reconstruct From Wilson Road To Constitution Ave 04-54TE Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19		13862		
13863 Bridge Painting: I-95 SB Over I-95 Wb Off-ramp - 184/124; I-95 SB On-ramp Over I-95 NB - 183/121 13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) Interchange Improvements @ Market Street Intersection @ Constitution Ave And Roadway Improvements Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 Reconstruct From Wilson Road To Constitution Ave 04-54TE O4-54TE Portsmouth - Road Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 Paint Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19				
13864 Bridge Painting: Northwood Rd Over I-95 Wb Off-ramp - 191/131; I-95 SB On-ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 E-19		13863		
ramp Over I-95 Wb Off-ramp - 180/122; Spaulding Tpk Ramp Over I-95 Wb Off-ramp - 199/139 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) Interchange Improvements @ Market Street [E-53] Intersection @ Constitution Ave And Roadway Improvements Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19			Over I-95 NB - 183/121	E-19
ramp - 199/139 13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19		13864		
13903 Piscataqua Riverwalk: Construct 400 Lf Of Pedestrian Facility And Pier Along The Piscataqua River Paralleling Bow Street [02-53TE] E-33				
The Piscataqua River Paralleling Bow Street [02-53TE] E-33 14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) E-10 Interchange Improvements @ Market Street E-53 Intersection @ Constitution Ave And Roadway Improvements E-51 Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 E-19 Reconstruct From Wilson Road To Constitution Ave E-10 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 Portsmouth - Rochester Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084				E-19
14193 Reconstruct & Reclassify As A City Street. (sah Funding Capped Per Year; Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) Interchange Improvements @ Market Street Intersection @ Constitution Ave And Roadway Improvements Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Portsmouth, Nh - Kittery, Me 13678 Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084		13903		
Excess Of Grand Total [\$1,200,000] Will Be 50/50 Match) Interchange Improvements @ Market Street Intersection @ Constitution Ave And Roadway Improvements Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Portsmouth, Nh - Kittery, Me 13678 Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084				E-33
Interchange Improvements @ Market Street		14193		
Intersection @ Constitution Ave And Roadway Improvements E-51				
Paint Bridge Approaches To Bridge Over Piscataqua River - 258/128 Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084				E-53
Reconstruct From Wilson Road To Constitution Ave 04-54TE Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084				
Portsmouth - Rochester Portsmouth, Nh - Kittery, Me 13679 Paint Bridge Over Piscataqua River - 247/084 Trade Port Multi-use Path - Construct A Multi Use Path Along Grafton Dr Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] E-33 E-44 Portsmouth, Nh - Kittery, Me 13678 Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084				
Between NH Avenue And Portsmouth Transportation Center, And Between Pease Golf Course And Airport Rd [04-54TE] Portsmouth - Rochester Portsmouth, Nh - Kittery, Me 13678 Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084		04-54TF		E-10
Portsmouth - Rochester Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19		07-341E		
Portsmouth - Rochester Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19				E-33
Rochester Installation Of 2 Overhead Signs And Emergency Reference Markers E-44 Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084				
Portsmouth, Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19		14232		
Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19	Rochester		Installation Of 2 Overhead Signs And Emergency Reference Markers	E-44
Nh - Kittery, Me Rehabilitate Bridge Over Piscataqua River - 247/084 (Memorial Bridge) & Replace Scott Avenue Bridge - 246/083 E-19 13679 Paint Bridge Over Piscataqua River - 247/084 E-19	Portsmouth	13678		
MeReplace Scott Avenue Bridge - 246/083E-1913679Paint Bridge Over Piscataqua River - 247/084E-19		13070	Rehabilitate Bridge Over Piscatagua River - 247/084 (Memorial Bridge) &	
13679 Paint Bridge Over Piscataqua River - 247/084 E-19				E-19
	0	13679		
				† - · ·
Long Bridge) E-19			•	E-19

Town	Project #	Scope of Work	CAACode
Rochester	11922	Construct Pedestrian Bike Path On Acquired B&M RR Land [93-11TE]	E-33
	13274	Roadway Reconstruction From Whitehall Road To Columbus Avenue	E-10
	13590	Rehab Bridge Over Blackwater Road - 194/149	E-19
	14019	Bridge Rehabilitation Over Cocheco River - 127/106	E-19
	14108	Reconstruct Intersection @ Church Street	E-53
	14216	Rehabilitate Pavement Of Left Turn Lane To Rochester Neck Road	E-10
	14286	Intersection Improvements at NH 11/Little Falls Rd.	E-51
		Intersection Improvements To Improve Safety Through Strafford Square In Vicinity Of North Main & Washington Streets	E-51
Rochester -			
Portsmouth -			
Seabrook		Resurfacing For Sfy 2007	E-10
Rollinsford	14241		
		Pavement Rehabilitation And Safety Work Beginning At Dover T/L, Proceeding	
		East Aprox 2.9 Miles To Maine S/L - [Federal Resurfacing Program]	E-10
Rye	12595	Reconstruct Foyes Corner	E-53
1.190	13269	Replace Wooden Bridge Over Seavey's Creek - 252/156	E-19
	12595A	Demolish One Building In The Southwest Corner Of The New Intersection Of	
		Sagamore / Elwyn / Pioneer Road	E-53
Calam	40400	Guardrail Upgrade And Other Related Work From Windham T/L To Hampstead	
Salem -	13428	T/L (betterment Guardrail Improvement Program)	E-6
Atkinson		17/2 (betterment Guardian improvement Frogram)	⊏-0
Salem To	14313		
Northfield		Widen Shoulders At Median Cross-overs At Various Locations	E-4
Sandown	14260	Bridge Replacement Over Exeter River - 098/117	ATT
Canaown	04-56TE	Town Center Sidewalk Improvement Plan - Construct Approximately 2,000' Of	7.1.1
	0.00.2	Sidewalk Along East Side Extending From Sandown Elementary School To	
		Sandown Depot, Connecting School, Town Library, Town Hall, Depot Museum,	
		Rail Trail, And Adjacent Residential Ar	E-33
Coobrook	12700	Traffic Signal Ungrade @ Hooksett Dood	E-52
Seabrook	13790	Traffic Signal Upgrade @ Hooksett Road	E-32
Seabrook-	14298		
portsmouth		Resurfacing For Sfy 2006	E-10
Somersworth	04-59TF	Renovate The Historic B&M Railroad Station 319 In Downtown Somersworth	
Somoroword	0-1 00 I L	Creating A Publicly Accessible Historic Area & Multi-modal Transportation Focal	
		Point In The Downtown [04-59TE]	E-28
Stratham /		1" Overlay: Stratham, NH33 From NH108 East To Voc Tech School (2.0 Miles);	
Epping - Lee /		Epping-Lee, NH125 From NH87 North To NH 152 (3.08 Miles); Lee-Durham,	
Lee - Durham		US4 From Lee Traffic Circle East To Sewage Treatment Plant (6.1 Miles) -	
		[Federal Resurfacing Program]	E-10
Wakefield	14085	Construct 10 Foot Shoulders, 12 Foot SB,NB And Left Turn Lane At The	
		Junction Rte 16 And Gage Hill & Wakefield Roads	ATT
	14087	Extend Shoulder Width 12 Foot For Acceleration & Deceleration Lanes For The	
		NH 16 SB Traffic At The Junction Of Long Ridge Road	ATT
	14088	Extend Shoulder To 12 Foot Acceleration & Deceleration Lanes For The NH 16	
		SB Traffic At The Junction Of Wilson Road	ATT
Windham	13113	Phase 1 To Construct Shared Roadway Bicycle Lane - 2.1 Miles [98-03TE]	E-33

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

APPENDIX D-3: NOT-EXEMPT PROJECTS LIST

APPENDIX D-3: NOT EXEMPT PROJECTS LIST

Town	Project #	Route/road	Scope of Work	Phase	FY	First Analysis Year
Dover	14287		Construct Park'n' Ride Facility (approximately 280 Space) Including A Terminal Building In The Vicinity Of Exit 9 Of The Spaulding Turnpike [04-32CM]	CON	2006	2007
Dover - Rochester - Somersworth		NH 108	Widening And Reconst. From The Weeks Corner Int. North 4.8 Miles To The NH 108 Int. With Granite Parkway In Rochester And Widening Of Sixth St. Connector Bridge Over The Spaulding Tpk At Exit 9 With NB Off-ramp Reconst.	CON	2014	2017
	11429B	Spaulding Tpk	Construction Of Exit 10 And Easterly Connection - Phase 1	CON	2014	2017
	11429C	Spaulding Tpk	Construction Of Exit 10 And Easterly Connection - Phase 2	CON	2014	2017
	11429D	Spaulding Tpk	Construction Of Exit 10 And Easterly Connection - Phase 3	CON	2014	2017
Durham	13867	Main Street	Reconstruct Main St To Permit Bi-direction Transit Shuttle Service / Project Includes Bike/ped Safety Improvements From Western Edge Of Campus To Downtown @ Pettee Brk Ln: Construct Of Transit Pull-outs, Central Median Creation, Delineation Of Xwalks, Liq	CON	2006	2007
	13868		Development Of Expanded Or Replace Accessible Rail Platform, Station Bldg Ext/int Renovation To Include Dedicated Indoor Traveler Waiting Space And Construct Full Intermodal Bus Access To Platform Area. Improved Ped. Access Around Station And/or Over Tra	CON	2006	2007
	13869		Purchase Three 14 Passenger Transit Vehicle For Expansion Of Unh Wildcat Shuttle System Beyond Core Campus Areas [02-09CM]	CON	2006	2007
Durham & Surrounding Communities	13870		Funding For Non-transit (fleet) Vehicle Infrastructure Share Of Regional Cng Fueling Station And Funding For Marginal Cost Of "cng" Engines On New Fleet Vehicles (police, Service, Etc) [02-10CM]	CON	2005	2007
Epping		NH 125	NH 125 widened to 2 through lanes each direction and center turn lane from NH 101 north through intersection with Main Street. Main St. intersection reconfigured and signalized.	CON	2004	2007
Exeter	13871	Lincoln Street	Expand Existing Passenger Railroad Station Parking Area (project #10025a) From 78 To 140 Parking Spaces [02-13CM]	CON	2006	2007
Greenland		NH 33/Ocean Rd	Intersection Improvements @ Ocean Road, Adding Additional Turning And Through Lanes	CON	2013	2017
Hampton		NH 27	BRIDGE REPLACEMENT OVER B&M RR - 162/142	CON	2006	2007
Hampton - North Hampton	13760	1-95	Widen Hampton Ramp Toll Plaza to 8 collection lanes including roadway approach & departure widening to accommodate increased traffic demands and including bridge work and install emergency reference markers from Mass S/L to Maine S/L	CON	2005	2007
Lee	14063	NH 155	Construct Left Turn Lane To Complete Safety Improvement Intersection @ NH 155A - Phase 2	CON	2005	2007
Lee	14063	NH 125/NH 152	RELOCATION & SIGNALIZATION @ HIGH STREET	CON	2006	2007
Milton	13874	Various	Construction Of Sidewalks To Connect: Elementary School With High School & Library; Learning Center, Church, & Vfw With Major Residential Areas; Remaining Links To Address Commuter Flows From Remick & Steeple Streets [02-19CM]	CON	2006	2007

APPENDIX D-3: NOT EXEMPT PROJECTS LIST

Town	Project #	Route/road	Scope of Work	Phase	FY	First Analysis Year
Milton	14077	NH 125	Reconstruct Crossing, Roadway & Upgrade Signals @ NH Northcoast, USDOT-AARR #054-232p	CON	2007	2007
Newcastle		NH 1B	Rehabilitate Single Leaf Bascule Moveable Bridge Over Little Harbor - 066/071	CON	2011	2017
Newington		Shattuck Way	Constructed Access Road from Spaulding Turnpike Exit 4 to industrial park with access points to Woodbury Avenue	CON	2002	2007
	14064	Nimble Hill Rd	Reconstruct and Improve	CON	2005	2007
	11238C	NH 16 / Us 4 / Spldg Tpk	Reconfiguration And Relocation Of Ramps And Access	CON	2005	2007
Newington -	11238	NH 16 / Us 4 /	Widen Turnpike Including Little Bay Bridges From Gosling Road To Dover Toll	CON	2010	2017
Dover	11200	Spldg Tpk	Widen Fampike moldaring Ettile Bay Bridges From Gosling Road To Bover For	0011	2011	2017
				ŀ	2012	2017
Newmarket	13878	NH 108	Construct 4' Bike Shoulders From The Southerly Limit Of Project 13107 In Newmarket To The Northerly Limit Of Project P4386 In Newfields [02-25CM]	CON	2006	2017
Plaistow -	10044B	NH 125	Reconstruction From East Road In Plaistow Northerly Approx. 6.0 +/- Mile To NH 125	CON	2007	2017
Kingston			& Main Street Intersection In Kingston		2009	2017
					2010	2017
					2011	2017
					2012	2017
	10044	NH 125	Widening, reconstruction and singalization at Hunt Road/Newton Jnct. Road	CON	2005	2007
	10044D	NH 125	Widening (construction Phase 2)	CON	2006	2017
	10044E	NH 125	Widening (construction Phase 3)	CON	2006	2017
Plaistow, NH To Haverhill, MA	13515		Construct Rail Platform & Provide Three Years Of Operating Subsidy For Passenger Rail [00-20CM]	CON	2006	2007
Portsmouth	13455	He 1 Punces	Deconstruct From Commerc Creek Project To Troffic Circle, Including Pridges	CON	2012	2017
Portsmouth	13433	Us 1 Bypass	Reconstruct From Sagamore Creek Project To Traffic Circle, Including Bridges 173/071, 183/087, 189/100, 188/097, 192/106	CON	2012 2013	2017 2017
	13516	Woodbury Ave /	Signal Coordination Along Woodbury Ave From I-95 Interchange To Gosling Road	CON	2005	2017
	04-16CM	Market Street	Bike/ped Path, Between Michael Succi Drive And The NH Port Authority [04-16CM	CON	2007	2017
Rochester	13517	NH 125	Signal Coordination From Brock Street To Lowell Street [00-23CM]	CON	2005	2007
,	10620G	Spaulding Tpk	Construction Of Exit 11 & 12 (nh 125) Bridges And 2nd Barrel - Phase 1	CON	2005	2009
				ŀ	2006	2009
	10620H	Spaulding Tpk	Construction Of 2nd Barrel Through Exit 13 - Phase 2	CON	2007	2009
				ŀ	2008	2009
	106201	Spaulding Tpk	Construction Of 2nd Barrel Through Exit 14 And Exit 15 - Phase 3	CON	2010	2017
	10620J	Spaulding Tpk	Construction Of 2nd Barrel Through Exit 16 (chestnut Hill Connector) - Phase 4	CON	2012	2017
					2013	2017
	10620K	Spaulding Tpk	Exit 11 & 12 (nh 125) Bridges And 2nd Barrel - Phase 2	CON	2007	2009
	400001	On and dia . T. !	Outstanding Of Ond Devel Through Edit (4.0.45, El., o. D. 10.	0011	2008	2009
	10620L	Spaulding Tpk	Construction Of 2nd Barrel Through Exit 14 & 15 - Phase 3, Part B	CON	2013	2017
Rochester- somersworth- Dover- newington- Portsmouth	13880	Spaulding Tpk	"Express" Bus Service For General Public Between Rochester & Portsmouth To Have Timely Connections With Inter-city & Local Transportation Services [02-29CM]	CON	2006	2007

Town	Project #	Route/road	Scope of Work	Phase	FY	First Analysis Year
Salem	12334	NH 28	Reconstruct Intersection, Main Street @ Depot Street, Including Signals, Left Turn Lanes & Approaches	CON	2009	2009
	13119	I-93 (exit 1)	Construct 500+ Space Park'n'ride With Bus Terminal @ Rockingham Blvd [98-09CM]	CON	2014	2017
	13518	Pelham Road	Signal Coordination From North Policy Road West To Stiles Road [00-24CM]	CON	2005	2007
	10418R	NH 28	Integration of Coordinated Traffic Signal Control, Video Surveillance, emergency and incident response support and communications	CON	2007	2009
	04-20CM	(blank)	Transportation Management Association, Bus Service And Bike/ped Path [04-20CM]	CON	2007	2007
Salem To	10418F	1-93	Construction Of Wetland Mitigation Sites In Anticipation Of Wetland Impacts	CON	2013	2017
Manchester	104101	1-93	Associated With Future Improvements To I-93 From Salem To Manchester. Includes: Londonderry L-8, L-8 Extension, L-12 Sites; & Londonderry Advance Mitigation / Wetland Creation [CON	2013	2011
	10418G	I-93	Park & Ride @ Exit 2 (Salem) [part Of 04-33CM]	CON	2006	2007
	10418H	I-93	Park & Ride @ Exit 3 (Windham) [part Of 04-33CM]	CON	2010	2017
	10418J	I-93	Widening From Mass S/I Northerly To I-293 Including Bridges	CON	2011	2017
					2012	2017
					2013	2017
					2014	2017
	10418L	I-93	Implement Expanded Bus Service & New Commuter Incentive Program. Purchase	CON	2005	2007
			14 Commuter Coaches & Provide 3 Years Of Operating Support [04-04CM]		2006	2007
	10418Z	I-93	Implementation Of Incident Management And Its Technologies For Overall Corridor,	CON	2005	2007
			To Improve Efficiency Before, During & After I-93 Construction		2006	2007
	13933A	I-93	Reconstruct & Widen Mainline From S/I To Exit 1 (Salem)	CON	2009	2017
	13933B	I-93	Replace Cross Street Bridge And Exit 1 Embankment (Salem)	CON	2006	2017
	13933C	I-93	Exit 1: Replace Ramp Bridges & Reconstruct Ramps (Salem)	CON	2006	2017
	13933D	I-93	Reconstruct & Widen Mainline Between Exit 1 & 2 And Replace Bridges Over NH 38 (Salem)	CON	2008	2017
	13933E	I-93	Exit 2, Replace Bridges Over Pelham Road (Salem)	CON	2008	2017
	13933F	I-93	Exit 2 Interchange (Windham)	CON	2009	2017
	13933G	I-93	Median Work & Replace Brookdale Road Bridge (Salem)	CON	2008	2017
	13933H	I-93	Construct Relocated Mainline & New Bridges Over NH 111a From Brookdale Rd (approx) To NH 111a (Salem-Windham)	CON	2007 2008	2017 2017
	139331	I-93	Exit 3 NH 111 Bridges And NH 111 Relocation (Windham)	CON	2006	2017
	100001	1.00		0011	2007	2017
	13933J	I-93 I-93	Exit 3 Interchange (Windham) Reconstruct And Widen Mainline North Of Exit 3 Through Weigh Stations (Windham)	CON	2008	2017
	13933K	1-93	Reconstruct And Widen Mainline North Of Exit 3 I frough Weigh Stations (Windham)	CON	2011	2017
	13933L	I-93	Reconstruct & Widen Mainline (projects To Be Broken Out)	CON	2011	2017
					2012	2017
					2013	2017
					2014	2017
0 -	444545	Dive Oten Tels (Us Double word the billion Allerine For Double word Of Observable Manager	001	0007	0007
Seabrook - Portsmouth	11151E	Blue Star Tpk (i- 95)	Its Deployment; Its Initiative Allowing For Deployment Of Changeable Message Boards, Highway Advisory Radio To Improve Motorist Safety And Awareness [04-31CM]	CON	2007	2007
	11151F	Blue Star Tpk (i-	Its Deployment; Its Initiative Allowing For Deployment Of Changeable Message	CON	2007	2007
		95)	Boards, Highway Advisory Radio To Improve Motorist Safety And Awareness	00.1		200.
Windham	40004	INILIAAA	Libertada Circal Controllara 9 Computar Fundament To Fotablish A Controllara	001	2025	2027
vvindnam	13884	NH 111	Upgrade Signal Controllers & Computer Equipment To Establish A Coordinated Signal Timing Plan @ Intersections Of Lowell Road, Fellows Avenue / North Lowell Road, & Village Green [02-34CM]	CON	2005	2007
Windham -	10075A	NH 111	Reconstruction & Signalization @ North Policy Road	CON	2014	2017
						2017
Salem	10075E	NH 111 Bypass	Construct West End Of Bypass Including Local Roadways, North Section Of NH 28 & Eastern Connection	CON	2005	2007
	10075F	NH 28 / NH 111	Reconstruction Of Intersection @ Lake Street And Shadow Lake Road	CON	2012	2017

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

APPENDIX D-4: DETAILED EMISSIONS TABLES

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan •Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

THIS PAGE INTENTIONALLY LEFT BLANK

Manchester					200	12				
Town Name	Manchester		NOx			VOC (ka))		VMT	
Epping		ART		TOTAL	ART			ART		TOTAL
Fremont 124.44										
Notingham 351.03 351.03 198.08 198.08 182.806 182.806.08 33.845										
Southern New Hampsh	Northwood	329.57		329.57	191.19		191.19	175149		175149.10
Southern New Hampst	Nottingham	351.03			198.08					182806.06
Town Name	Grand Total	1,215	486	1,701	705	194	900	641,175	189,669	830,845
Town Name	Southern New Hampsh		NOx			VOC (kg)	١		VMT	
Brentwood	-			TOTAL	ART			ART		TOTAL
Brentwood										
Danville			237.26			94.15			92321	
East Kingston 76.76	Danville									
Hampstead										
Hampton Falls	S .	427.57		427.57	258.31		258.31	228355		228355.04
Newton 95.60 95.60 57.38 57.38 57.38 57.147 51146.80 Plaistow 510.65 510.65 317.32 317.32 271024 271024 Salem 1188.17 1113.74 2301.92 758.47 594.83 1353.30 629048 530865 1159912.65 Sandown 117.08 71.29 71.29 71.29 62882 62882 62882,33 Seabrook 249.05 474.73 723.78 159.53 192.46 352.00 130120 188149 318269.44 South Hampton 28.10 28.10 15.61 15.61 14476 14476 15.61 14476 14476 15.61 14476 14476 15.61 14476 14476 14476 14476 15.61 14476	•	144.22	620.10	764.32	90.55	247.00		77451	242760	
Plaistow 510.65	•	721.87		721.87				388194		388193.54
Plaistow 510.65 510.65 317.32 317.32 271024 271024 Salem 118.17 1113.74 2301.92 758.47 594.83 1353.30 629048 530865 1159912.65 Sandown 117.08 117.08 71.29 62882 62882.33 Seabrook 249.05 474.73 723.78 159.53 192.46 352.00 130120 188149 318269.44 South Hampton 28.10 28.10 15.61 15.61 14476 14476.15 14476 1447	Newton	95.60		95.60	57.38		57.38	51147		51146.80
Sandown Seabrook 117.08 (249.05) 474.73 (723.78) 71.29 (723.78) 71.29 (723.78) 62882 (723.78) 62882 (723.78) 31209.44 (74.78) 31209.45 (74.78) 31209.45 (74.78) 31209.45 (74.78) 31209.45 (74.78) 31209.45 (74.78) 31209.45 (74.78) 31209.45 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.46 (74.78) 31209.47 (74.78) 31209.47 (74.78) 31209.47 (74.78) 31209.47 (74.78) 31209.47 (74.78) 31209.47 (74.78) 31209.47 (74.78) 31209.47 (74.78) 31209.47 (74.78)	Plaistow	510.65		510.65	317.32			271024		271024.40
Seabrook 249.05	Salem	1188.17	1113.74	2301.92	758.47	594.83	1353.30	629048	530865	1159912.65
South Hampton Windham Set Set	Sandown	117.08		117.08	71.29		71.29	62882		62882.33
Windham 845.56 1114.63 1960.19 587.16 542.20 1129.36 412722 505710 918432.58 Grand Total 5,254 3,560 8,815 3,309 1,671 4,979 2,760,545 1,559,806 4,320,351 Seacoast NOx VOC (kg) VMT Town Name ART FREE TOTAL ART PREE TOTAL ART PREE <td>Seabrook</td> <td>249.05</td> <td>474.73</td> <td>723.78</td> <td>159.53</td> <td>192.46</td> <td>352.00</td> <td>130120</td> <td>188149</td> <td>318269.44</td>	Seabrook	249.05	474.73	723.78	159.53	192.46	352.00	130120	188149	318269.44
Grand Total 5,254 3,560 8,815 3,309 1,671 4,979 2,760,545 1,559,806 4,320,351 Seacoast Town Name NOX VOC (kg) VMT Town Name ART FREE TOTAL ART \$299483 299482.77 299482.77 DOTAL ART \$415.62 706443 1123905.43 38342.74 \$415.62 706445 482482.74 1124.64 1826	South Hampton	28.10		28.10	15.61		15.61	14476		14476.15
Seacoast Town Name NOx ART FREE FREE TOTAL ART FREE FREE TOTAL ART FREE FREE TOTAL Barrington 569.72 569.72 326.45 326.45 299483 299482.77 Dover 780.74 1543.41 2324.15 485.11 762.15 1247.26 415262 708643 1123905.43 Durham 576.48 9.43 585.91 338.55 5.29 343.84 302336 4652 306988.47 Exeter 357.00 787.49 1144.49 225.09 316.74 541.84 188119 309997 498115.52 Farmington 321.32 321.32 179.62 179.62 165450 165450.23 165450.23 Greenland 243.65 1051.50 1295.15 144.58 435.07 579.66 129413 424952 554364.79 Hampton 617.08 1021.96 1639.05 383.20 436.61 819.81 326729 4155.23 742251.79 Kensington 142.05 <td>Windham</td> <td>845.56</td> <td>1114.63</td> <td>1960.19</td> <td>587.16</td> <td>542.20</td> <td>1129.36</td> <td>412722</td> <td>505710</td> <td>918432.58</td>	Windham	845.56	1114.63	1960.19	587.16	542.20	1129.36	412722	505710	918432.58
Town Name ART FREE TOTAL ART FREE TOTAL ART FREE TOTAL Barrington 569.72 569.72 326.45 326.45 299483 299482.77 Dover 780.74 1543.41 2324.15 485.11 762.15 1247.26 415262 708643 1123905.43 Durham 576.48 9.43 585.91 338.55 5.29 343.84 302336 4652 306988.47 Exeter 357.00 787.49 3144.49 225.09 316.74 541.84 188119 309997 498115.52 Farmington 321.32 179.62 165450 165450 165450.23 16	Grand Total	5,254	3,560	8,815	3,309	1,671	4,979	2,760,545	1,559,806	4,320,351
Town Name ART FREE TOTAL ART FREE TOTAL ART FREE TOTAL Barrington 569.72 569.72 326.45 326.45 299483 299482.77 Dover 780.74 1543.41 2324.15 485.11 762.15 1247.26 415262 708643 1123905.43 Durham 576.48 9.43 585.91 338.55 5.29 343.84 302336 4652 306988.47 Exeter 357.00 787.49 3144.49 225.09 316.74 541.84 188119 309997 498115.52 Farmington 321.32 179.62 165450 165450 165450.23 16	Seacoast		NOx			VOC (ka))		VMT	
Dover Dover Durham 780.74 1543.41 543.41 5685.91 485.11 38.55 5.29 1247.26 343.84 415262 30643 306988.47 1123905.43 306988.47 Exeter 357.00 787.49 1144.49 225.09 316.74 541.84 188119 309997 498115.52 1856.50 498115.52 165450 498115.52 165450.23 498115.52 165450.23 <th>Town Name</th> <th>ART</th> <th>FREE</th> <th>TOTAL</th> <th>ART</th> <th></th> <th></th> <th>ART</th> <th>FREE</th> <th>TOTAL</th>	Town Name	ART	FREE	TOTAL	ART			ART	FREE	TOTAL
Dover 780.74 1543.41 2324.15 485.11 762.15 1247.26 415262 708643 1123905.43 Durham 576.48 9.43 585.91 338.55 5.29 343.84 302336 4652 306988.47 Exeter 357.00 787.49 1144.49 225.09 316.74 541.84 188119 309997 498115.52 Farmington 321.32 179.62 179.62 165450 165450.23 165450.23 Greenland 243.65 1051.50 1295.15 144.58 435.07 579.66 129413 424952 554364.79 Hampton 617.08 1021.96 1639.05 383.20 436.61 819.81 326729 415523 742251.79 Kensington 142.05 85.82 85.82 76415 76215.07 76415.07 76415.07 76415.07 742251.79 4329.79 4333891 500 334390.74 43390.74 43420.5 85.82 85.82 76415 76215.9 43420.5	Barrington	569.72		569.72	326.45		326.45	299483		299482.77
Durham 576.48 9.43 585.91 338.55 5.29 343.84 302336 4652 306988.47 Exeter 357.00 787.49 1144.49 225.09 316.74 541.84 188119 309997 498115.52 Farmington 321.32 321.32 179.62 179.62 165450 165450.23 Greenland 243.65 1051.50 1295.15 144.58 435.07 579.66 129413 424952 554364.79 Hampton 617.08 1021.96 1639.05 383.20 436.61 819.81 326729 415523 742251.79 Kensington 142.05 142.05 85.82 85.82 76415 76415.07 Lee 634.16 1.08 635.24 363.49 0.57 364.06 333891 500 334390.74 Madbury 156.57 91.94 91.94 83219 83219.25 83219.25 Mildolleton 60.37 35.71 35.71 32256 193 27870	· ·	780.74	1543.41	2324.15	485.11	762.15	1247.26	415262	708643	1123905.43
Farmington 321.32 321.32 179.62 179.62 165450 165450.23 Greenland 243.65 1051.50 1295.15 144.58 435.07 579.66 129413 424952 554364.79 Hampton 617.08 1021.96 1639.05 383.20 436.61 819.81 326729 415523 742251.79 Kensington 142.05 85.82 85.82 76415 76415.07 Lee 634.16 1.08 635.24 363.49 0.57 364.06 333891 500 334390.74 Madbury 156.57 156.57 91.94 91.94 83219 83219.25 Middleton 60.37 60.37 35.71 35.71 32256 32255.83 Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 65.81 65.81 61959 61958.76 Newfields 99.35	Durham	576.48	9.43	585.91	338.55	5.29	343.84	302336	4652	
Greenland 243.65 1051.50 1295.15 144.58 435.07 579.66 129413 424952 554364.79 Hampton 617.08 1021.96 1639.05 383.20 436.61 819.81 326729 415523 742251.79 Kensington 142.05 142.05 85.82 85.82 85.82 76415 76415.07 Lee 634.16 1.08 635.24 363.49 0.57 364.06 333891 500 334390.74 Madbury 156.57 91.94 91.94 83219 83219.25 Middleton 60.37 60.37 35.71 35.71 32256 32255.83 Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 6.58 5865 5865.19 Newfields 99.35 99.35 62.35 62.35 52701 52701.21 Newmarket 179.12 <t< td=""><td>Exeter</td><td>357.00</td><td>787.49</td><td>1144.49</td><td>225.09</td><td>316.74</td><td>541.84</td><td>188119</td><td>309997</td><td>498115.52</td></t<>	Exeter	357.00	787.49	1144.49	225.09	316.74	541.84	188119	309997	498115.52
Hampton 617.08 1021.96 1639.05 383.20 436.61 819.81 326729 415523 742251.79 Kensington 142.05 85.82 85.82 76415 76415.07 Lee 634.16 1.08 635.24 363.49 0.57 364.06 333891 500 334390.74 Madbury 156.57 156.57 91.94 91.94 83219 83219.25 83219.25 Middleton 60.37 35.71 35.71 32256 32255.83 Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 6.58 5865 5865.19 Newfields 99.35 99.35 62.35 62.35 52701 52701.21 Newmarket 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08	Farmington	321.32		321.32	179.62		179.62	165450		165450.23
Kensington 142.05 142.05 85.82 85.82 76415 76415.07 Lee 634.16 1.08 635.24 363.49 0.57 364.06 333891 500 334390.74 Madbury 156.57 156.57 91.94 91.94 83219 83219.25 Middleton 60.37 60.37 35.71 35.71 32256 32255.83 Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 5865 5865.19 New Durham 124.64 124.64 65.81 61959 61958.76 Newfields 99.35 99.35 62.35 52701 52701.21 Newmarket 179.12 179.12 109.97 283.03 41290 209794 251084.20 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56	Greenland	243.65	1051.50	1295.15	144.58	435.07	579.66	129413	424952	554364.79
Lee 634.16 1.08 635.24 363.49 0.57 364.06 333891 500 334390.74 Madbury 156.57 156.57 91.94 91.94 83219 83219.25 Middleton 60.37 60.37 35.71 35.71 32256 32255.83 Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 5865 5865.19 5865.19 New Durham 124.64 124.64 65.81 65.81 61959 61958.76 Newfields 99.35 99.35 62.35 52701 52701.21 Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90	Hampton	617.08	1021.96	1639.05	383.20	436.61	819.81	326729	415523	742251.79
Madbury 156.57 156.57 91.94 91.94 83219 83219.25 Middleton 60.37 60.37 35.71 35.71 32256 32255.83 Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 6.58 5865 5865.19 New Durham 124.64 124.64 65.81 65.81 61959 61958.76 Newfields 99.35 99.35 62.35 52701 52701.21 Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.	Kensington	142.05		142.05	85.82		85.82	76415		76415.07
Middleton 60.37 60.37 35.71 35.71 32256 32255.83 Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 6.58 5865 5865.19 New Durham 124.64 124.64 65.81 65.81 61959 61958.76 Newfields 99.35 99.35 62.35 52701 52701.21 Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82	Lee	634.16	1.08	635.24	363.49	0.57	364.06	333891	500	334390.74
Milton 544.43 3.91 548.34 293.87 2.22 296.09 276752 1953 278704.85 New Castle 10.78 10.78 6.58 6.58 5865 5865.19 New Durham 124.64 124.64 65.81 65.81 61959 61958.76 Newfields 99.35 99.35 62.35 52701 52701.21 Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 <td>Madbury</td> <td>156.57</td> <td></td> <td>156.57</td> <td>91.94</td> <td></td> <td>91.94</td> <td>83219</td> <td></td> <td>83219.25</td>	Madbury	156.57		156.57	91.94		91.94	83219		83219.25
New Castle 10.78 10.78 6.58 6.58 5865 5865.19 New Durham 124.64 124.64 65.81 65.81 61959 61958.76 Newfields 99.35 99.35 62.35 62.35 52701 52701.21 Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 79.61 73704 73703.99 118689.37	Middleton	60.37		60.37	35.71		35.71	32256		32255.83
New Durham 124.64 124.64 65.81 65.81 61959 61958.76 Newfields 99.35 99.35 62.35 52701 52701.21 Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 79.61 73704 73703.99 118689.37 Somersworth 391.69 240.72 240.72 209941 209940.75 Strafford	Milton	544.43	3.91	548.34	293.87	2.22		276752	1953	278704.85
Newfields 99.35 99.35 62.35 62.35 52701 52701.21 Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 79.61 73704 73703.99 Rye 220.42 220.42 133.56 118689 118689.37 Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford <	New Castle	10.78		10.78	6.58		6.58	5865		5865.19
Newington 78.72 434.20 512.92 50.06 232.97 283.03 41290 209794 251084.20 Newmarket 179.12 179.12 109.97 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 79.61 73704 73703.99 Rye 220.42 220.42 133.56 118689 118689.37 Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham <t< td=""><td>New Durham</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	New Durham									
Newmarket 179.12 179.12 109.97 96161 96160.69 North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 79.61 73704 73703.99 Rye 220.42 220.42 133.56 133.56 118689 118689.37 Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26	Newfields	99.35			62.35		62.35			52701.21
North Hampton 271.22 1029.73 1300.95 162.17 442.90 605.08 145755 422395 568149.56 Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 79.61 73704 73703.99 Rye 220.42 220.42 133.56 133.56 118689 118689.37 Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26	Newington		434.20			232.97		41290	209794	251084.20
Portsmouth 1134.84 1428.78 2563.62 719.34 678.94 1398.28 588285 639585 1227870.21 Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 73704 73703.99 Rye 220.42 220.42 133.56 133.56 118689 118689.37 Somersworth 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26	Newmarket	179.12		179.12	109.97		109.97	96161		96160.69
Rochester 1250.82 632.38 1883.20 739.52 319.86 1059.38 661923 291756 953678.96 Rollinsford 143.79 143.79 79.61 73704 73703.99 Rye 220.42 220.42 133.56 133.56 118689 118689.37 Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26	•									
Rollinsford 143.79 143.79 79.61 79.61 73704 73703.99 Rye 220.42 220.42 133.56 133.56 118689 118689.37 Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26										
Rye 220.42 220.42 133.56 133.56 118689 118689.37 Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26			632.38			319.86			291756	
Somersworth 391.69 391.69 240.72 240.72 209941 209940.75 Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26										
Strafford 98.68 98.68 56.56 56.56 51674 51673.72 Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26	-									
Stratham 387.37 171.06 558.43 229.37 71.16 300.53 206521 68443 274963.26		391 69		391 69	240 72		240.72	209941		209940.75
		98.68	474.00	98.68	56.56	74.40	56.56	51674	00440	51673.72

3,704

9,314

5,609

3,498,194

4,943,791

8,441,985

8,115

17,510

9,395

Grand Total

Manchester			NOx			VOC (kg))		VMT	
Town Name		ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Epping		272.45	303.91	576.36	159.31	118.80	278.11	239707	195369	435075.98
Fremont		84.01		84.01	52.15		52.15	75639		75638.67
Northwood	BUILD	203.53		203.53	117.70		117.70	180434		180433.96
Northwood	NO BUILD	203.53		203.53	117.70		117.70	180593		180593.00
Nottingham	BUILD	222.91		222.91	125.14		125.14	193295		193295.03
Nottingnam	NO BUILD	222.91		222.91	125.14		125.14	193453		193453.00
Grand Total	BUILD	783	304	1,087	454	119	573	689,075	195,369	884,444
	NO BUILD	783	304	1,087	454	119	573	689,392	195,369	884,761
Southern NH	ı		NOx			VOC (kg)	1		VMT	
Town Name	•	ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
			FREE			FNEE			FREE	
Atkinson		187.14		187.14	117.59		117.59	166985		166985.27
Brentwood		257.26	152.20	409.46	151.94	59.16	211.09	230220	97623	327843.16
Danville		98.88		98.88	58.47		58.47	87407		87407.20
East Kingston		52.09		52.09	31.53		31.53	46793		46792.58
Hampstead		273.86		273.86	166.45		166.45	244789		244789.21
Hampton Falls		92.44	385.58	478.02	58.09	150.60	208.69	83053	249103	332156.44
Kingston		455.45		455.45	276.05		276.05	409896		409895.98
Newton		65.19		65.19	39.11		39.11	58316		58315.94
Plaistow		327.85		327.85	203.65		203.65	290256		290255.72
Salem		693.52	681.24	1374.75	441.13	370.70	811.82	614397	556330	1170726.89
Sandown		75.51		75.51	45.92		45.92	67776		67775.62
Seabrook		151.02	293.31	444.33	96.46	116.72	213.18	131804	192024	323827.58
South Hampton	ı	18.62		18.62	10.27		10.27	15933		15933.04
Windham		515.52	698.69	1214.20	360.13	345.68	705.81	415283	540010	955293.23
Grand Total		3,264	2,211	5,475	2,057	1,043	3,100	2,862,908	1,635,089	4,497,998

Seacoast		NOx			VOC (kg))		VMT	
Town Name	ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Barrington	361.50		361.50	206.18		206.18	316483		316483.18
Dover	497.88	977.17	1475.05	308.96	492.48	801.44	442317	768427	1210744.79
Durham	359.74	5.54	365.28	210.63	3.19	213.82	314367	4721	319088.58
Exeter	227.73	502.19	729.92	143.30	199.81	343.11	200387	328759	529146.05
Farmington	205.21		205.21	114.53		114.53	176200		176199.96
Greenland	155.72	655.44	811.16	92.75	267.65	360.40	138161	439500	577660.60
Hampton	376.36	634.20	1010.56	233.14	267.21	500.35	332835	428732	761567.18
Kensington	92.08		92.08	55.66		55.66	82804		82803.58
Lee	401.59	0.78	402.36	230.48	0.40	230.88	353513	608	354121.57
Madbury	103.04		103.04	60.31		60.31	91325		91325.11
Middleton	38.68		38.68	22.80		22.80	34487		34486.93
Milton	342.06	2.41	344.47	182.55	1.41	183.96	288075	2081	290156.45
New Castle	6.45		6.45	3.95		3.95	5879		5879.04
New Durham	79.22		79.22	41.31		41.31	65096		65096.30
Newfields	66.32		66.32	41.75		41.75	58471		58471.49
Newington	54.41	267.21	321.62	34.39	147.91	182.30	48098	222259	270356.83
Newmarket	115.52		115.52	71.15		71.15	103486		103485.61
North Hampton	172.29	640.19	812.48	103.14	272.24	375.38	154830	437171	592000.86
Portsmouth	723.75	863.16	1586.91	457.62	412.13	869.75	626139	653341	1279479.79
Rochester	779.07	407.32	1186.39	459.20	209.12	668.32	688038	321768	1009805.78
Rollinsford	88.73		88.73	48.56		48.56	75326		75326.17
Rye	135.39		135.39	82.01		82.01	122005		122005.06
Somersworth	236.99		236.99	145.31		145.31	212421		212420.61
Strafford	67.11		67.11	38.21		38.21	58478		58477.57
Stratham	243.94	109.53	353.46	144.73	44.99	189.72	217399	72803	290201.99
Grand Total	5,931	5,065	10,996	3,533	2,319	5,851	5,206,620	3,680,171	8,886,791

Manchester			NOx			VOC (kg	1)		VMT	
Town Name		ART	FREE	TOTAL	ART	FREE	Grand Total	ART	FREE	Grand Total
Epping		229.15	247.10	476.24	137.86	100.26	238.11	250866	198258	449124.64
Fremont		71.81		71.81	45.65		45.65	80425		80424.83
Nauthornand	BUILD	165.70		165.70	98.34		98.34	182781		182780.80
Northwood	NOBUILD	165.70		165.70	98.34		98.34	182908		182908.00
Nottingham	BUILD	183.53		183.53	105.86		105.86	198063		198063.48
Nottingham	NOBUILD	183.53		183.53	105.86		105.86	198233		198233.00
Grand Total	BUILD	650	247	897	388	100	488	712,136	198,258	910,394
	NO BUILD	650	247	897	388	100	488	712,432	198,258	910,690
								, -	,	,
Southern Ne	w Hampsh		NOx			VOC (kg			VMT	
Town Name		ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Atkinson		149.08		149.08	95.78		95.78	165574		165574.40
Brentwood		210.66	125.32	335.97	127.84	50.56	178.40	234751	100320	335071.18
Danville		81.82		81.82	49.66		49.66	90002		90001.91
East Kingston		43.70		43.70	27.11		27.11	48834		48833.78
Hampstead		222.71		222.71	138.72		138.72	247658		247658.11
Hampton Falls		76.01	311.24	387.26	48.86	126.10	174.97	84991	250769	335759.62
Kingston		373.39		373.39	232.21		232.21	418234		418233.55
Newton		55.47		55.47	34.10		34.10	61762		61762.10
Plaistow		273.32		273.32	174.18		174.18	300635		300634.89
Salem		542.14	637.92	1180.06	352.26	317.96	670.21	598433	605928	1204361.72
Sandown		62.62		62.62	39.07		39.07	69975		69975.12
Seabrook		122.43	235.98	358.40	79.94	97.70	177.63	132862	193286	326148.25
South Hampton	1	15.58		15.58	8.86		8.86	16608		16608.34
Windham		417.09	596.83	1013.92	301.71	288.64	590.35	416699	554641	971339.96
Grand Total		2,646	1,907	4,553	1,710	881	2,591	2,887,019	1,704,944	4,591,963
Seacoast			NOx			VOC (kg)		VMT	
Seacoast Town Name		ART	NOx FREE	TOTAL	ART	VOC (kg FREE	TOTAL	ART	VMT FREE	TOTAL
		ART 300.00	_	TOTAL 300.00		FREE		ART 327129		TOTAL 327129.26
Town Name			_	300.00 1222.40	ART		TOTAL			
Town Name Barrington		300.00	FREE	300.00	ART 176.00	FREE	TOTAL 176.00	327129	FREE	327129.26
Town Name Barrington Dover		300.00 419.99	FREE 802.41	300.00 1222.40	ART 176.00 267.01	FREE 419.55	TOTAL 176.00 686.56	327129 464347	FREE 791575	327129.26 1255921.71
Town Name Barrington Dover Durham Exeter Farmington		300.00 419.99 291.99 186.30 168.94	802.41 4.40 410.17	300.00 1222.40 296.39 596.46 168.94	ART 176.00 267.01 175.28 119.85 96.83	419.55 2.62 169.11	TOTAL 176.00 686.56 177.90 288.96 96.83	327129 464347 317419 204013 180469	791575 4702 334971	327129.26 1255921.71 322121.63
Town Name Barrington Dover Durham Exeter Farmington Greenland		300.00 419.99 291.99 186.30 168.94 127.46	802.41 4.40 410.17 523.45	300.00 1222.40 296.39 596.46 168.94 650.91	ART 176.00 267.01 175.28 119.85 96.83 77.79	FREE 419.55 2.62 169.11 223.91	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70	327129 464347 317419 204013 180469 140701	791575 4702 334971 442859	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton		300.00 419.99 291.99 186.30 168.94 127.46 303.47	802.41 4.40 410.17	300.00 1222.40 296.39 596.46 168.94 650.91 814.20	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36	419.55 2.62 169.11	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63	327129 464347 317419 204013 180469 140701 333913	791575 4702 334971	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08	FREE 802.41 4.40 410.17 523.45 510.72	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14	FREE 419.55 2.62 169.11 223.91 223.27	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14	327129 464347 317419 204013 180469 140701 333913 85143	791575 4702 334971 442859 431746	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02	802.41 4.40 410.17 523.45	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83	FREE 419.55 2.62 169.11 223.91	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17	327129 464347 317419 204013 180469 140701 333913 85143 359878	791575 4702 334971 442859	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49	FREE 802.41 4.40 410.17 523.45 510.72	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02	FREE 419.55 2.62 169.11 223.91 223.27	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445	791575 4702 334971 442859 431746	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97	802.41 4.40 410.17 523.45 510.72 0.63	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33	419.55 2.62 169.11 223.91 223.27 0.33	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480	791575 4702 334971 442859 431746 613	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33	FREE 802.41 4.40 410.17 523.45 510.72	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25	FREE 419.55 2.62 169.11 223.91 223.27	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610	791575 4702 334971 442859 431746	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09	802.41 4.40 410.17 523.45 510.72 0.63	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44	419.55 2.62 169.11 223.91 223.27 0.33	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033	791575 4702 334971 442859 431746 613	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94	802.41 4.40 410.17 523.45 510.72 0.63	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82	419.55 2.62 169.11 223.91 223.27 0.33	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394	791575 4702 334971 442859 431746 613	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09	802.41 4.40 410.17 523.45 510.72 0.63	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44	FREE 419.55 2.62 169.11 223.91 223.27 0.33	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033	791575 4702 334971 442859 431746 613	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48	802.41 4.40 410.17 523.45 510.72 0.63	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38	419.55 2.62 169.11 223.91 223.27 0.33	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034	791575 4702 334971 442859 431746 613	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92	802.41 4.40 410.17 523.45 510.72 0.63 1.97	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679	791575 4702 334971 442859 431746 613 2141	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488	791575 4702 334971 442859 431746 613 2141 227157 440538	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton Portsmouth		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96 595.15	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24 695.48	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20 1290.64	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85 384.72	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40 344.18	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25 728.90	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488 640755	791575 4702 334971 442859 431746 613 2141 227157 440538 659839	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton Portsmouth Rochester		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96 595.15 636.92	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20 1290.64 974.06	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85 384.72 384.85	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25 728.90 563.61	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488 640755 699865	791575 4702 334971 442859 431746 613 2141 227157 440538	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98 1300593.45 1033050.56
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton Portsmouth Rochester Rollinsford		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96 595.15 636.92 71.95	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24 695.48	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20 1290.64 974.06 71.95	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85 384.72 384.85 40.42	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40 344.18	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25 728.90 563.61 40.42	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488 640755 699865 75970	791575 4702 334971 442859 431746 613 2141 227157 440538 659839	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98 1300593.45 1033050.56 75970.16
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton Portsmouth Rochester Rollinsford Rye		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96 595.15 636.92 71.95 109.85	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24 695.48	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20 1290.64 974.06 71.95 109.85	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85 384.72 384.85 40.42 68.14	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40 344.18	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25 728.90 563.61 40.42 68.14	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488 640755 699865 75970 123166	791575 4702 334971 442859 431746 613 2141 227157 440538 659839	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98 1300593.45 1033050.56 75970.16 123166.22
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton Portsmouth Rochester Rollinsford Rye Somersworth		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96 595.15 636.92 71.95 109.85 193.94	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24 695.48	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20 1290.64 974.06 71.95 109.85 193.94	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85 384.72 384.85 40.42 68.14 121.78	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40 344.18	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25 728.90 563.61 40.42 68.14 121.78	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488 640755 699865 75970 123166 216294	791575 4702 334971 442859 431746 613 2141 227157 440538 659839	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98 1300593.45 1033050.56 75970.16 123166.22 216293.57
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Kensington Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton Portsmouth Rochester Rollinsford Rye Somersworth Strafford		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96 595.15 636.92 71.95 109.85 193.94 56.56	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24 695.48 337.13	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20 1290.64 974.06 71.95 109.85 193.94 56.56	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85 384.72 384.85 40.42 68.14 121.78 33.07	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40 344.18 178.76	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25 728.90 563.61 40.42 68.14 121.78 33.07	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488 640755 699865 75970 123166 216294 61345	791575 4702 334971 442859 431746 613 2141 227157 440538 659839 333185	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98 1300593.45 1033050.56 75970.16 123166.22 216293.57 61345.34
Town Name Barrington Dover Durham Exeter Farmington Greenland Hampton Lee Madbury Middleton Milton New Castle New Durham Newfields Newington Newmarket North Hampton Portsmouth Rochester Rollinsford Rye Somersworth		300.00 419.99 291.99 186.30 168.94 127.46 303.47 76.08 328.02 86.49 31.97 279.33 7.09 64.94 54.34 45.48 93.92 139.96 595.15 636.92 71.95 109.85 193.94	802.41 4.40 410.17 523.45 510.72 0.63 1.97 217.51 511.24 695.48	300.00 1222.40 296.39 596.46 168.94 650.91 814.20 76.08 328.65 86.49 31.97 281.31 7.09 64.94 54.34 262.99 93.92 651.20 1290.64 974.06 71.95 109.85 193.94	ART 176.00 267.01 175.28 119.85 96.83 77.79 192.36 47.14 193.83 52.02 19.33 153.25 4.44 34.82 34.98 29.38 59.24 85.85 384.72 384.85 40.42 68.14 121.78	FREE 419.55 2.62 169.11 223.91 223.27 0.33 1.19 124.77 227.40 344.18	TOTAL 176.00 686.56 177.90 288.96 96.83 301.70 415.63 47.14 194.17 52.02 19.33 154.44 4.44 34.82 34.98 154.15 59.24 313.25 728.90 563.61 40.42 68.14 121.78	327129 464347 317419 204013 180469 140701 333913 85143 359878 95445 35480 292610 8033 66394 59603 50034 104679 156488 640755 699865 75970 123166 216294	791575 4702 334971 442859 431746 613 2141 227157 440538 659839	327129.26 1255921.71 322121.63 538983.99 180468.65 583560.40 765658.93 85143.01 360490.25 95445.12 35480.32 294751.04 8032.61 66394.26 59602.58 277191.02 104679.18 597025.98 1300593.45 1033050.56 75970.16 123166.22 216293.57

Draft

Stratham

Grand Total

80.60

2,022

35.44

1,676

116.05

3,698

Appendix D-4 **Detailed Emissions Tables**

2017

					201	1				
Manchester			NOx			VOC (kg)	1		VMT	
Town Name		ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Epping		98.62	96.16	194.78	78.54	54.15	132.68	279602	206777	486379.65
Fremont		32.97	000	32.97	27.37	00	27.37	95668	200	95667.78
	BUILD	67.21		67.21	52.48		52.48	192512		192511.53
Northwood	NOBUILD	67.21		67.21	<i>52.48</i>		52.48	192249		192249.00
	BUILD	76.78		76.78	58.35		58.35	215762		215761.86
Nottingham	NOBUILD	76.78		76.78	58.35		58.35	215796		215796.00
Grand Total	BUILD	276	96	372	217	54	271	783,543	206,777	990,321
	NO BUILD	276	96	372	217	54	271	783,315	206,777	990,092
								,	,	000,000
Southern New H	Hamsphire		NOx			VOC (kg))		VMT	
Town Name		ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Atkinson		61.10		61.10	51.37		51.37	175569		175568.74
Brentwood		87.51	49.76	137.27	70.06	27.82	97.88	253461	106598	360059.06
Danville		34.16		34.16	27.26		27.26	97674		97673.93
East Kingston		20.56		20.56	16.72		16.72	59536		59536.36
Hampstead		89.29		89.29	72.94		72.94	257636		257636.30
Hampton Falls		32.41	120.56	152.97	27.20	67.48	94.69	93782	259422	353204.08
Kingston		159.51		159.51	129.65		129.65	462116		462115.91
Newton		24.28		24.28	19.52		19.52	70044		70043.95
Plaistow		123.69		123.69	101.78		101.78	350658		350657.95
Salem		222.81	245.62	468.44	189.57	165.53	355.10	635641	619868	1255509.00
Sandown		27.78		27.78	22.67		22.67	80493		80493.19
Seabrook		48.32	90.87	139.20	41.30	51.94	93.24	135816	198997	334812.48
South Hampton	1	6.87		6.87	5.17		5.17	19106		19106.46
Windham		169.44	244.07	413.51	162.50	148.60	311.10	434777	565497	1000274.22
Grand Total		1,108	751	1,859	938	461	1,399	3,126,309	1,750,382	4,876,692
Seacoast			NOx			VOC (kg)			VMT	
Town Name		ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Barrington		130.96	TIVEL	130.96	101.88	TILL	101.88	372424	TIVLE	372424.10
Dover		178.13	342.73	520.86	148.22	238.13	386.35	509763	892684	1402447.53
Durham		120.46	1.74	122.20	95.28	1.36	96.64	339773	4869	344642.08
Exeter		78.32	161.79	240.12	65.94	92.65	158.59	222055	355435	577489.70
Farmington		70.25	101.75	70.25	53.39	32.00	53.39	195870	000-100	195870.26
Greenland		51.90	202.34	254.24	41.85	119.71	161.57	148867	460128	608994.88
Hampton		121.08	197.87	318.95	100.55	118.54	219.08	344880	445673	790553.18
Kensington		33.04		33.04	26.79		26.79	95804		95804.07
Lee		136.64	0.33	136.97	106.36	0.23	106.59	389516	853	390368.44
Madbury		36.79	0.00	36.79	29.02	0.20	29.02	105374	000	105373.75
Middleton		13.69		13.69	10.84		10.84	39425		39425.05
Milton		114.33	0.89	115.22	83.38	0.70	84.08	313297	2526	315823.21
New Castle		2.73	0.00	2.73	2.24	00	2.24	8038	2020	8037.88
New Durham		26.72		26.72	19.12		19.12	71605		71605.07
Newfields		22.85		22.85	19.26		19.26	64896		64895.68
Newington		13.40	105.39	118.79	11.33	76.10	87.44	38525	283727	322251.59
Newmarket		37.10		37.10	30.58		30.58	107151	· - ·	107151.45
North Hampton			198.10	257.13	47.48	121.37	168.85	171172	457754	628925.45
	1	59.07					. 55.55			020020.10
•	1	59.02 250.02				185.13	396.51	701753	696954	1398706.51
Portsmouth	1	250.02	277.52	527.54	211.38	185.13 103.74	396.51 314.10	701753 756135	696954 385876	1398706.51 1142010.39
Portsmouth Rochester	1	250.02 264.89		527.54 416.72	211.38 210.36	185.13 103.74	314.10	756135	696954 385876	1142010.39
Portsmouth Rochester Rollinsford	1	250.02 264.89 28.44	277.52	527.54 416.72 28.44	211.38 210.36 21.07		314.10 21.07	756135 78141		1142010.39 78140.63
Portsmouth Rochester Rollinsford Rye	1	250.02 264.89 28.44 44.18	277.52	527.54 416.72 28.44 44.18	211.38 210.36 21.07 35.82		314.10 21.07 35.82	756135 78141 128481		1142010.39 78140.63 128481.46
Portsmouth Rochester Rollinsford	1	250.02 264.89 28.44	277.52	527.54 416.72 28.44	211.38 210.36 21.07		314.10 21.07	756135 78141		1142010.39 78140.63

64.54

1,623

20.79

1,078

85.33

2,701

232165

5,739,945

78700

4,065,178

310865.42

9,805,124

Manchester		NOx			VOC (kg)				VMT			
Town Name		ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL		
Epping		58.98	48.94	107.92	65.43	39.75	105.18	318672	215239	533910.61		
Fremont		20.92		20.92	23.95		23.95	115955		115955.00		
Northwood		36.99		36.99	39.59		39.59	203952		203952.07		
		36.99		36.99	39.59		39.59	203944		203944.00		
Nottingham		43.57		43.57	45.62		45.62	236874		236874.19		
		43.57		43.57	45.62		45.62	237946		237946.00		
Grand Total	BUILD	160	49	209	175	40	214	875,453	215,239	1,090,692		
	NO BUILD	160	49	209	175	40	214	876,517	215,239	1,091,756		

Southern New Hampshire		NOx			VOC (kg)			VMT	
Town Name	ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Atkinson	34.52		34.52	40.12		40.12	189414		189413.64
Brentwood	50.03	26.08	76.11	55.71	21.08	76.79	279625	114516	394141.36
Danville	19.98		19.98	22.01		22.01	109969		109969.46
East Kingston	12.84		12.84	14.32		14.32	71312		71311.92
Hampstead	49.71		49.71	56.25		56.25	275730		275730.07
Hampton Falls	19.14	60.23	79.37	22.13	48.80	70.93	105755	266393	372147.69
Kingston	90.83		90.83	102.18		102.18	504094		504093.88
Newton	15.70		15.70	17.34		17.34	86981		86980.87
Plaistow	74.38		74.38	85.00		85.00	402042		402041.57
Salem	124.86	125.83	250.69	146.82	120.27	267.09	678004	634527	1312530.91
Sandown	16.80		16.80	18.86		18.86	93468		93468.25
Seabrook	26.19	45.42	71.62	31.03	37.54	68.56	139936	204015	343950.49
South Hampton	4.17		4.17	4.34		4.34	22407		22406.63
Windham	95.15	123.13	218.27	132.12	107.79	239.91	455164	578369	1033533.20
Grand Total	634	381	1,015	748	335	1,084	3,413,899	1,797,821	5,211,720

Seacoast		NOx			VOC (kg)			VMT	
Town Name	ART	FREE	TOTAL	ART	FREE	TOTAL	ART	FREE	TOTAL
Barrington	75.02		75.02	80.51		80.51	411475		411475.18
Dover	99.00	188.41	287.42	113.54	186.92	300.46	541841	986075	1527915.72
Durham	65.56	0.88	66.45	71.52	0.97	72.49	355491	4877	360367.90
Exeter	44.63	85.07	129.70	51.95	70.56	122.50	241768	384349	626117.00
Farmington	40.20		40.20	42.26		42.26	217110		217109.98
Greenland	28.98	103.29	132.27	32.27	87.67	119.94	159351	476573	635924.19
Hampton	65.57	99.94	165.51	75.14	86.77	161.91	356804	460595	817398.63
Kensington	19.34		19.34	21.56		21.56	107825		107824.84
Lee	76.66	0.18	76.84	82.76	0.17	82.93	422450	904	423353.99
Madbury	21.04		21.04	22.89		22.89	116273		116273.04
Middleton	8.02		8.02	8.72		8.72	44450		44450.22
Milton	62.97	0.51	63.48	63.05	0.57	63.62	334269	2858	337127.02
New Castle	1.42		1.42	1.59		1.59	8020		8019.81
New Durham	14.94		14.94	14.80		14.80	77945		77944.58
Newfields	13.57		13.57	15.93		15.93	73161		73160.76
Newington	8.55	56.80	65.35	9.98	58.28	68.26	46709	304798	351507.03
Newmarket	20.67		20.67	23.51		23.51	114167		114167.25
North Hampton	34.37	101.35	135.72	38.17	89.27	127.44	191757	474379	666135.78
Portsmouth	140.42	143.36	283.78	164.10	135.48	299.58	753537	720363	1473900.72
Rochester	147.01	85.60	232.61	160.55	83.55	244.10	808161	436605	1244765.90
Rollinsford	15.06		15.06	15.31		15.31	80052		80051.55
Rye	24.22		24.22	27.00		27.00	135527		135526.99
Somersworth	42.60		42.60	48.13		48.13	235547		235546.59
Strafford	16.54		16.54	17.43		17.43	89846		89846.41
Stratham	44.39	18.71	63.11	48.99	15.94	64.93	245987	85460	331447.20
Grand Total	1,131	884	2,015	1,252	816	2,068	6,169,520	4,337,838	10,507,358

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX D-5: INDIVIDUAL OFF-MODEL ANALYSIS WORKSHEETS

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX D-6: MOBILE 6.2 (NH VEHICLE & AGE MIX) EMISSIONS FACTORS

Appendix D-6 Emissions Factors

Freeway - All Vehicle Composite Emissions Factors (in grams/mile)

	20	02	20	07	20	na	20	17	20	26
Speed	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
3	6.641		4.255	2.083	3.395	1.669	1.615	0.643	1.337	0.351
4	4.682		2.935	1.977	2.350	1.584	1.136	0.610	0.928	0.331
5	3.506	3.202	2.144	1.914	1.723	1.533	0.848	0.590	0.682	0.319
6	2.900		1.751	1.805	1.412		0.702	0.555	0.557	0.297
7	2.556		1.538	1.694	1.242	1.355	0.621	0.518	0.488	0.274
8	2.297		1.378	1.611	1.115		0.559	0.491	0.436	0.257
9	2.097		1.254	1.546	1.016		0.512	0.470	0.396	0.244
10	1.936		1.155	1.494	0.936	1.194	0.473	0.453	0.364	0.233
11	1.813		1.080	1.443	0.877	1.153	0.444	0.436	0.339	0.223
12	1.723		1.027	1.387	0.834		0.422	0.418	0.321	0.212
13	1.647		0.982	1.340	0.798	1.070	0.404	0.403	0.305	0.203
14 15	1.582 1.525		0.943 0.910	1.300 1.265	0.767 0.740	1.037 1.009	0.388 0.374	0.390 0.379	0.292 0.280	0.195 0.189
16	1.525		0.881	1.265	0.740	0.989	0.362	0.379	0.270	0.189
17	1.441		0.859	1.240	0.718	0.989	0.353	0.369	0.270	0.184
18	1.408		0.839	1.221	0.700	0.973	0.334	0.367	0.255	0.183
19	1.378		0.821	1.213	0.670		0.337	0.365	0.248	0.183
20	1.351		0.805	1.206	0.657	0.961	0.330	0.363	0.242	0.182
21	1.328		0.790	1.199	0.646		0.324	0.362	0.237	0.182
22	1.307		0.778		0.636		0.319		0.233	0.181
23	1.289		0.767	1.187	0.627	0.946	0.315	0.359	0.229	0.181
24	1.272		0.757	1.182	0.619		0.311	0.358	0.226	0.181
25	1.256		0.747	1.177	0.612		0.307	0.357	0.223	0.180
26	1.242		0.738	1.173	0.605	0.935	0.303	0.356	0.220	0.180
27	1.228	2.023	0.730	1.170	0.598	0.932	0.300	0.355	0.217	0.180
28	1.215	2.019	0.722	1.167	0.592	0.930	0.297	0.355	0.214	0.180
29	1.203		0.715	1.164	0.586		0.294	0.354	0.211	0.179
30	1.192		0.708	1.162	0.581	0.926	0.291	0.354	0.209	0.179
31	1.180		0.701	1.160	0.575	0.925	0.288	0.353	0.207	0.179
32	1.167		0.694	1.159	0.570	0.924	0.286	0.353	0.205	0.179
33	1.156		0.687	1.158	0.565	0.923	0.283	0.353	0.203	0.179
34	1.145		0.681	1.157	0.560	0.923	0.281	0.353	0.201	0.179
35	1.135	2.002	0.676	1.157	0.556	0.922	0.279	0.353	0.199	0.178
36	1.128		0.671	1.161	0.552	0.926	0.277	0.354	0.197	0.179
37 38	1.121 1.114		0.667 0.663	1.166	0.549 0.545	0.930 0.933	0.276 0.274	0.356 0.357	0.196 0.195	0.180 0.181
39	1.114		0.659	1.170 1.174	0.545	0.933	0.274	0.358	0.193	0.181
40	1.100		0.655	1.174	0.542		0.273	0.360	0.193	0.182
41	1.096		0.651	1.189	0.537	0.942	0.271	0.363	0.192	0.183
42	1.090		0.648	1.197	0.534		0.269	0.366	0.190	0.185
43	1.085		0.645	1.205	0.531		0.268	0.368	0.189	0.186
44	1.080		0.641	1.213	0.529		0.267	0.370	0.188	0.188
45	1.074		0.638	1.226	0.526	0.979	0.265	0.374	0.187	0.189
46	1.069	2.116	0.635	1.239	0.524	0.989	0.264	0.378	0.186	0.191
47	1.064		0.632		0.521		0.263	0.382	0.185	0.193
48	1.059		0.628	1.262	0.519		0.263	0.385	0.185	0.194
49	1.054		0.625		0.517	1.022	0.262	0.390	0.184	0.196
50	1.049		0.622	1.297	0.515		0.261	0.395	0.183	0.199
51	1.044		0.620	1.315	0.513	1.052	0.260	0.400	0.183	0.201
52	1.040		0.617		0.511	1.065	0.260	0.405	0.182	0.203
53	1.036		0.615	1.353	0.509		0.259	0.411	0.182	0.206
54	1.033		0.613	1.379	0.508		0.259	0.418	0.182	0.209
55	1.029		0.611	1.404	0.506	1.125	0.259	0.426	0.182	0.212
56	1.026		0.609	1.428	0.505	1.144	0.259	0.432	0.182	0.215
57	1.023		0.607	1.457	0.504		0.259	0.440	0.182	0.218
58	1.021		0.606	1.494	0.503		0.259	0.451	0.183	0.222
59	1.018		0.605	1.530	0.502		0.259	0.460	0.183	0.226
60 60.7	1.015 1.014		0.603		0.502 0.501		0.260	0.470 0.477	0.183 0.183	0.230 0.233
60.7	1.014	2.004	0.602	1.008	0.501	1.215	0.260	0.477	0.103	∪.∠აპ

Arterial - All Vehicle Composite Emissions Factors (in grams/mile)

0 1	2002		2007		2009		2017		2026	
Speed	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
2.5	8.053	3.524	5.197		4.142		1.961		1.633	
3	6.485	3.386	4.142		3.306		1.577		1.305	
4	4.525	3.214	2.822	1.965	2.261	1.582	1.099		0.896	
5	3.349	3.111	2.031	1.902	1.634		0.811		0.650	
6	2.888	2.932	1.744		1.407		0.702		0.558	
7	2.558	2.804	1.539	1.709	1.244		0.625		0.492	
8	2.311	2.708	1.385	1.649	1.122	1.327	0.566			
9	2.119	2.634	1.266	1.602	1.027	1.289	0.521	0.497	0.404	
10	1.965	2.574	1.170	1.565	0.951	1.259	0.485		0.373	
11	1.861 1.774	2.482 2.405	1.108	1.506	0.902	1.211	0.460 0.439		0.352	
12 13	1.774	2.405	1.057 1.013	1.458 1.416	0.860	1.172 1.139	0.439		0.334 0.319	
13	1.637	2.340	0.976	1.381	0.826 0.796		0.421			
15	1.582	2.237	0.943	1.351	0.790		0.400			
16	1.530	2.189	0.943	1.320	0.775		0.379			
17	1.484	2.148	0.812		0.743		0.367		0.264	
18	1.443	2.111	0.860		0.723		0.357			
19	1.443	2.078	0.839		0.686		0.337		0.257	
20	1.407	2.078	0.839		0.670		0.347		0.237	
21	1.346	2.040	0.802	1.212	0.657		0.332			
22	1.320	1.996	0.787		0.645		0.326		0.244	
23	1.297	1.973	0.773	1.182	0.634		0.320			
24	1.276	1.952	0.761	1.169	0.624		0.315			
25	1.256	1.933	0.749		0.614		0.310			
26	1.239	1.917	0.739		0.606		0.306		0.222	
27	1.223	1.902	0.729		0.598		0.302			
28	1.209	1.888	0.720	1.128	0.591	0.906	0.298	0.350	0.215	
29	1.195	1.875	0.712	1.120	0.585		0.295		0.212	
30	1.182	1.863	0.705	1.113	0.579	0.894	0.291	0.345	0.209	
31	1.169	1.858	0.697	1.109	0.573	0.891	0.288			
32	1.156	1.852	0.690	1.106	0.567	0.888	0.285	0.343	0.204	0.179
33	1.144	1.847	0.683	1.103	0.562	0.886	0.283	0.342	0.202	0.178
34	1.133	1.842	0.677	1.100	0.557	0.884	0.280		0.200	0.177
35	1.122	1.838	0.671	1.097	0.552	0.882	0.278	0.340	0.198	0.177
36	1.115	1.844	0.666	1.102	0.548	0.885	0.276	0.341	0.197	0.177
37	1.108	1.850	0.662	1.107	0.545	0.889	0.275	0.343	0.195	0.178
38	1.102	1.856	0.658		0.542		0.273			
39	1.095	1.861	0.654		0.539		0.272		0.193	
40	1.090	1.867	0.650		0.536		0.270		0.191	
41	1.084	1.879	0.646		0.533		0.269			
42	1.078	1.890	0.643		0.530		0.268		0.189	
43	1.072	1.901	0.640		0.528		0.267		0.188	
44	1.067	1.912	0.636		0.525		0.265		0.187	
45	1.062	1.922	0.633	1.158	0.523		0.264			
46	1.057	1.939	0.630		0.521		0.263			
47	1.052	1.956			0.518		0.262			
48	1.047	1.972	0.624		0.516		0.261			
49	1.042	1.988	0.621		0.514		0.260			
50	1.038	2.002	0.618		0.511					
51	1.033	2.027	0.615		0.509		0.259			
52 53	1.029	2.050			0.507		0.258			
53 54	1.024 1.020	2.073	0.610		0.505		0.258		0.181	
	1.020	2.095 2.116	0.608 0.605		0.503 0.502					
55 56	1.016	2.116			0.502		0.256 0.256			
57	1.013	2.150	0.603		0.500		0.256			
58	1.010	2.103	0.602		0.499		0.256			
59	1.007	2.214	0.598		0.496		0.256			
60	1.004	2.274	0.597		0.497		0.256			
61	0.999	2.321	0.596		0.495					
62	0.997	2.366	0.594		0.495		0.256			
63	0.995	2.410	0.593		0.493		0.256			
64	0.992	2.453	0.592		0.493		0.257			
65	0.990	2.494	0.591		0.492		0.257			
								-		

Air Quality Conformity Analysis – Seacoast & Salem-Plaistow-Windham MPOs 8 Hour Ozone Standard Analysis and 2007-2010 TIP & 2007-2026 Plan

•Seacoast & Southern NH (RPC Portion) Serious Non-Attainment Areas, Manchester Marginal Non-Attainment Area (Seacoast MPO Portion) •



D-67